

7710 ELLENCROFT LN

10802156

6/25/2007

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: 7082A DATE: 11-23-2005

TC: 108 - 021 - 56 ☒ L ☒ CRT

SERIAL 19827

Name of Owner DAVID AND CHARISSE BOOTH Juris.: _____

Address of Property 7710 ELLENCROFT LANE

Inspection Data:

Tank Material 1500 ST, 1000 PT

Total Length of Drainfield 400

Number of Lines DIFFERENT LENGTHS @ 400

Cover Depth 12"

Water Supply Source WELL

Distance to Water Source 95'

Excavation Inspected 5-10-05 PRIOR TO WORK

Tank(s) Inspected 5-10-05 PRIOR

Wash Line Inspected _____

High Water Alarm Inspected 11/23/2005

PLOT

Design _____ CTR# RANDY NELSON

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: TYPE II - B, C

11/23/2005 - VERY POOR LANDSCAPING - ADVISED MS. BOOTH ON LANDSCAPING TO DIVERT WATER FROM DRAINFIELD AND PUMP TANK

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: 7082A DATE: 5/9/05

TC: 108 021 56

SERIAL 19917

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 10/9/03. All work shall be completed on or before 6/9/05, 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.

Install septic system in accordance with approved plot plan

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 3 (Various lengths)

Depth of Stone NA inches

Distance from House 5' feet

Distance from Property Line 10' feet

Distance from Well >50' feet

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

NAME OF OWNER Charisse Booth

LOCATION OF PROPERTY 7710 Ellencroft Ln

Comments: 1500ST, 1000DT, #1, 400' Innovative Septic System, Drop box distribution. Install 6" clay loam over drainfield

Phil S. Walker RS

Environmental Health Specialist

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

check 2146 JKA

ACS

FEE: 300.00 **AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION**
DATE: 10/25/04 **VOID SIXTY (60) MONTHS FROM DATE OF ISSUANCE** LDP 5050

DATE: 4-22-04 **PERMIT NO:** 7082A
PARCEL NO: 108-021-56

JOB LOCATION ADDRESS: 7710 ELLENCROFT LANE
PROPERTY OWNER: DAVID AND CHARISSE BOUTH
BUILDING CONTRACTOR:
SUBDIVISION NAME: ELLENCROFT LOT #6
AUTHORIZATION ISSUED BY: [signature] **DATE:** 4-22-04
DEHNR AUTHORIZED AGENT

AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NO. 7082A, 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: (1) REQUIRES AGREEMENT FORMS
(2) REQUIRES 6" OF CLAY LOAM SOIL OVER PRIMFIELD.

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.

[signature] 4/27/04
SIGNATURE OF OWNER/OWNER'S REPRESENTATIVE DATE

CONDITIONS OF IMPROVEMENT PERMIT

Permit Number: 7082A

Tax Number: 10802156

- 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 as 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:

.225 Long-term acceptance rate (GPD/ft^2)	360 Max gallons/day wastewater flow	1600 Absorption Area (sq ft)	9 Trench spacing (min. on centers) (ft)
Serviced by private well: ☒ Yes ☐ No	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	na Depth of stone (in)	

Any surface water present: Type: Minimum separation distance (ft):

Additional conditions: Install at least 6 inches of clean fill clay loam over drainfill .
See plot plan for additional conditions.

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:

1600 Absorption Area (sq ft) ____ Total trench length (ft)	na Depth of stone (in)	9 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.

4-22-04
DEHNR 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

4/21/04
Owner/Agent Signature Date

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

FEE: 200.00
DATE: 10/8/03 JKA

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

[ ] 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 #: 7082A

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: 108-021-56

STREET ADDRESS: 7710 Ellenroft

SUBDIVISION OR MOBILE HOME PARK NAME: Hickory Acres

LOT NUMBER: 6

TYPE OF BUILDING (CHECK ONE):

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

HEATED SQUARE FOOTAGE: 3000

NUMBER OF BEDROOMS: ~~3~~ 4 NUMBER OF OCCUPANTS: 2

FOUNDATION FOR RESIDENCE:

__ WITHOUT BASEMENT
✓ ON SLAB
✓ CRAWL SPACE Comba
__ WITH BASEMENT /PLUMBING
__ WITH BASEMENT /NO PLUMBING

TOWNSHIP (CHECK ONE):

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

CLOSING DATE _____

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

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: __ YES X 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: Booth Charisse J
(LAST) (FIRST) (MI)

ADDRESS: 7811 Montreya Ct

CITY: Cha STATE: N C ZIP: 28212

DAYTIME PHONE: (704) 536-3412 | 803.802-6699

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME:
(LAST) (FIRST) (MI)

DAYTIME PHONE: ( ) -

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? April 02

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.

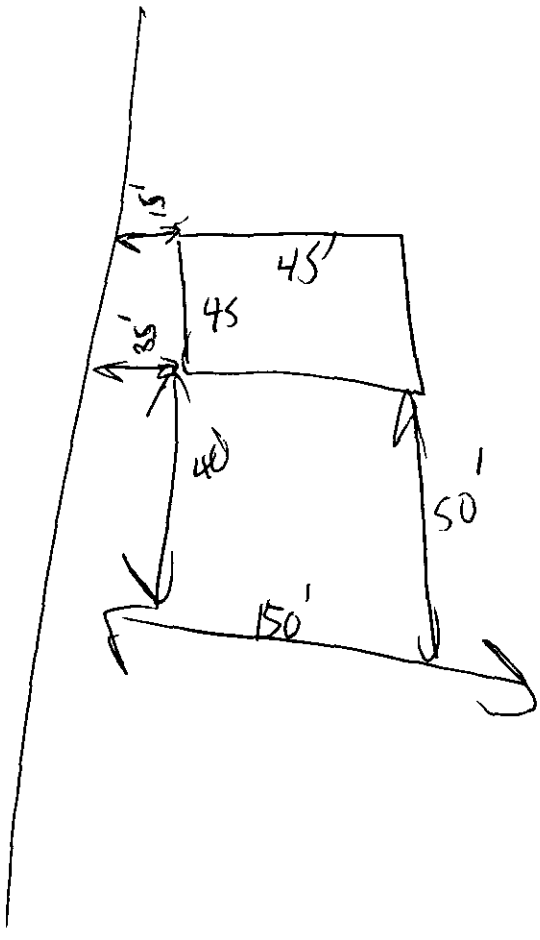
SIGNED: C Booth DATE: 10/9/03

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

Cherise Booth

Ellenwood

704-536-3412



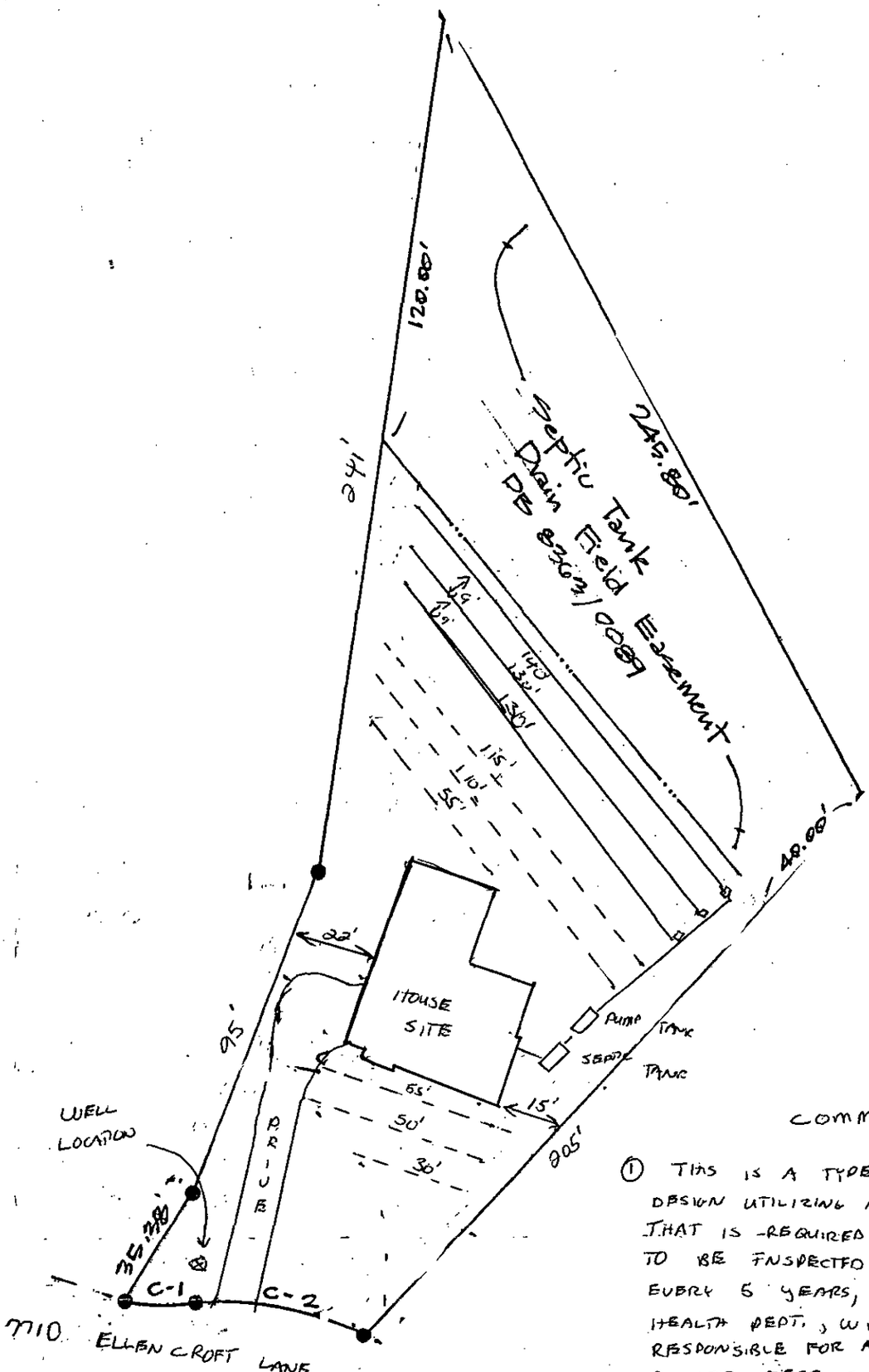
450

105
33
140
150

PERMIT FOR

7710 ELLENCROFT LANE

SCALE 1" = 40'



COMMENTS:

① THIS IS A TYPE III-B,G INNOVATIVE DESIGN UTILIZING AN EFFLUENT PUMP THAT IS REQUIRED BY STATE LAW TO BE INSPECTED AT LEAST ONCE EVERY 5 YEARS, BY THE LOCAL HEALTH DEPT., WITH THE HOMEOWNER RESPONSIBLE FOR ANY FEES, AS SET BY THE MECK COUNTY BOARD OF COMMISSIONERS.

② DISTRIBUTION IS TO BE ACCOMPLISHED BY DROP-BOXES, REGULATED BY A GATE VALVE.

* ③ NOTE WELL LOCATION - THERE IS NO FLEXIBILITY HERE.

④ REPAIR LINES ARE INDICATED BY DASHED LINES.

⑤ HOUSE LOCATION CANNOT BE CHANGED WITHOUT PRIOR APPROVAL FROM THE HEALTH DEPT.

⑥ INSTALL 6" OF CUBAN FILL OVER DRAINFIELD

X _____
OWNERS' SIGNATURE

File # 7082A

THIS IS TO CERTIFY THAT ON March 25, 2002, I SURVEYED THE PROPERTY SHOWN ON THIS PLAT, AND THAT THE TITLE LINES AND THE WALLS OF THE BUILDINGS IF ANY, ARE SHOWN HEREON.

NORTH CAROLINA PROFESSIONAL SEAL L-3337 LAND SURVEYOR KENNETH F. LENTZ

KENNETH F. LENTZ
NORTH CAROLINA
PROFESSIONAL LAND SURVEYOR L-3337
1515 WOODS CREEK ROAD
MATTHEWS, NC 28105
704 348 1564

Note: The subject property is NOT in a Flood Hazard Area.

Error of Closure within 1:10,000

No NGS Data found within 2000'

Fnd. 1" pipe

DB 4240/324

DB 5731-770

241.83'

S 51 09 11 E

120.80'

DB-962/309

N 86 12 05 W 246.80'

Septic Tank Drain Field Easement DB 8203/0089

Vicinity Map

Robinson Church Rd

Irwin Rd

Ellen Craft

LEGEND

- Chain link fence
- Barbed wire fence

NOTES

10' Side Setback
55' Rear Setback
80' Min. Lot width at setback
(See MB 23/193 & DB 8252/660)

7

#7710

Fnd. ½" I.R.

Fnd. ½" I.R.

#7704

Fnd. ½" I.R.

Fnd. ½" I.R.

Fnd. ½" I.R.

Fnd. ½" I.R.

Lot Area = ± 0.68 Ac. or ± 29,730 SF by Grid

108-021-54

125'

115'

S 31 44 49 E 95.68'

N 31 44 49 E 95.68'

N 34 48 10 E 95.38'

35' Setback

50' WELL

22' #7710

~3000 Sq. Ft. 2 story house

Hdd. 40'

42'

41' Setback line

68'

55'

55'

48'

Driveway

40' Setback

Sewage system access

S 86 12 05 E 246.80'

40.66'

20'

10.68'±

Ellencroft Lane 40' R/W

R=45'

C-1

C-2

Curve Table

C1
Ch. Dist = 18.92
Arc. Dist = 19.40
Ch. Brg = N 34 57 50 E

C-2
Ch. Dist = 40.98
Arc. Dist = 49.43
Ch. Brg. = N 44 11 55 E

BOUNDARY SURVEY

of

Lot 6, Ellen Craft Subdivision

Crab Orchard Twp., Mecklenburg Co., North Carolina

THE PROPERTY OF: Charisse & husband David Booth

SCALE: 1" = 40'

MRS. BOOTH -

HERE IS THE PROPOSED SEPTIC SYSTEM LAYOUT - THIS IS AN INNOVATIVE, DESIGN UTILIZING AN EFFLUENT PUMP. THE INITIAL SYSTEM AND REPAIR CANNOT BE ALTERED. THE WELL LOCATION CANNOT BE ALTERED -

FOR REGISTRATION JUDITH A. GIBSON
REGISTER OF DEEDS
MECKLENBURG COUNTY, NC
2004 APR 27 03:10 PM
BK:17103 PG:375-378 FEE:$20.00

INSTRUMENT # 2004093596

2004093596

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

WASTEWATER TREATMENT AND DISPOSAL SYSTEM DESIGN AGREEMENT: 15A NCAC 18A .1948 AND ANY OF THE FOLLOWING RULES: .1956; .1957(a); .1957(b); or .1957(c); OR .1969

FILE # 7082A
PARCEL # 108-021-56

The undersigned, David L Booth Jr., owner of property located at 7710 Ellencroft Chase NC 28215, (the "site") and described in an instrument recorded in Book 08252 at Page 660, Mecklenburg Public Registry, hereby acknowledges that the undersigned applied to the Mecklenburg County Health Department (the "Department") for a permit to install a septic tank sewage disposal system on the site; that the Department evaluated the site for suitability for such a system in accordance with the regulations promulgated by the North Carolina Commission for Health Services as 15A NCAC 18A .1900 et seq.; that the Department originally classified the site as "unsuitable" pursuant to the standards set forth in the regulations; that the undersigned requested that the Department reclassify the site as "provisionally suitable" in light of the particular septic tank system proposed by the undersigned; that the Department considered various studies, data, and other information which indicate to the Department that the septic tank system proposed by the undersigned is allowed by the rules; and that the Department therefore reclassified the site as "provisionally suitable" and issued an appropriate permit for such proposed septic tank system.

The undersigned further acknowledges that the proper design, construction, operation and maintenance of such septic tank system is the responsibility of the designer, owner, developer, installer, or user of the system, as applicable, and that neither the Department nor its officials, employees, or agents warrant or guarantee that the said system installed pursuant to the permit issued by the Department will function in a satisfactory manner for any given period of time or that the Department, its officials, employees or agents assume any liability for any damages of any kind which are caused, or which may be caused, by a malfunction of such system.

The undersigned further acknowledges that the following conditions will apply to the site:

This instrument was prepared by: David L Booth Jr
Mail after recording to: 7811 Montreya ct
Charlotte NC 28210

- Any changes on the property may make the Improvement Permit null and void and may make the Improvement Permit subject to revocation.

- Do not grade, cut, fill, pave, construct a building or deck, dig a well, install a swimming pool or otherwise cover or disturb the soil (except for planting and maintaining grass or other ground covers) in a manner which will adversely affect the repair area or area where the septic tank system is located.

- When a private certified operator is required, no improvement permit for the designated repair shall be issued unless there is a private certified operator to carry out this management program in the service area where the proposed system is to be located. (Refer to Rule .1961, "Maintenance of Sewage Systems," for further information.)

- Additional fees will be required according to the Mecklenburg County user fee schedule applicable at the time for the issuance of a repair permit for any subsequent repairs to the sewage treatment and disposal system or for installation of a replacement system.

- At the time repairs to the sewage treatment and disposal system are to be made or a replacement system installed, the regulations in effect at that time will govern the repairs or installation of a replacement system.

The undersigned further agrees for himself, his heirs and assigns that he shall indemnify and hold harmless theDepartment, its employees, and officials, as well as Mecklenburg County and its employees and officials, for any damages or other claims of any person or persons whatsoever arising out of the installation, operation, or failure of said septic tank system.

Use of the singular masculine pronoun forms herein shall be deemed to also include the plural and feminine forms as the context may require.

This document shall be placed on the public records of the Register of Deeds of Mecklenburg County and indexed therein under the Grantor Index in the name or names of the undersigned, and the foregoing acknowledgements shall henceforth be binding on all persons claiming any right, title, or interest in the site.

IN WITNESS WHEREOF, the undersigned has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, this 27 day of April 2004

_____ (SEAL)

_____ (Corporate Name)

_____ (SEAL)

By: _____ _____ (SEAL)

_____ President _____ (SEAL)

ATTEST:

_____

_____ Secretary

(Corporate Seal)

STATE OF NORTH CAROLINA
COUNTY OF Mecklenburg

I, Mary M. James, a Notary Public for said County and State, do hereby certify that David L. Robbins Jr personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and notarial seal, this 27 day of April, 2004.

Mary M James
Notary Public

My Commission Expires:

8/11/07

MARY M. JAMES NOTARY PUBLIC MECKLENBURG COUNTY, N.C.

STATE OF NORTH CAROLINA
COUNTY OF _____

I, _____, a Notary Public for said County and State, do hereby certify that _____ personally came before me this day and acknowledged that he is _____ Secretary of _____, a North Carolina corporation, and that by authority duly given and as the act and deed of said corporation, the foregoing instrument was signed in its name by its _____ President, sealed with its corporate seal, and attested by _____ as its _____ Secretary.

WITNESS my hand and notarial seal, this _____ day of _____, 20____.

_____
Notary Public

My Commission Expires:

_____

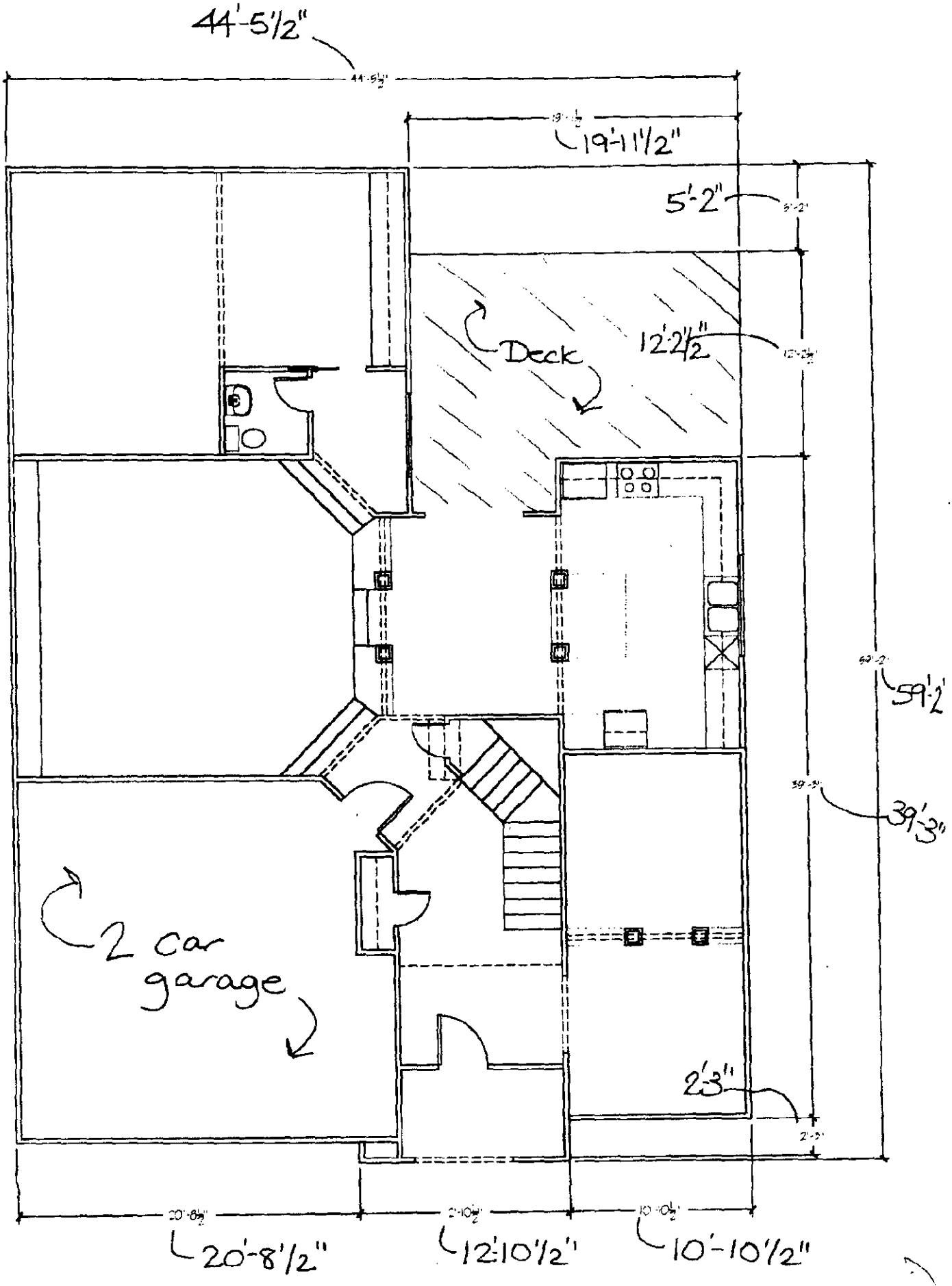
REVISED 8-13-02

To: Drew Walker
704.336.6894
From: Charisse Booth

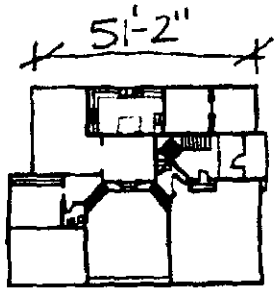
Let me know if this will work better. I shortened up the right side and made the plan narrower, it should give us more wiggle room.

Call me to disass when you lay it out and let me know if it will work.

CJBooth


44'-5½"
19'-11½"
5'-2"
Deck
12'-2½"
59'-2"
39'-3"
2'-3"
2 car garage
20'-8½"
12'-10½"
10'-10½"

1/8"



File # 7082A

THIS IS TO CERTIFY THAT ON March 25, 2002, I SURVEYED THE PROPERTY SHOWN ON THIS PLAT, AND THAT THE TITLE LINES AND THE WALLS OF THE BUILDINGS IF ANY, ARE SHOWN HEREON.

NORTH CAROLINA PROFESSIONAL SEAL L-3317 LAND SURVEYOR KENNETH F. LENTZ

KENNETH F. LENTZ
NORTH CAROLINA
PROFESSIONAL LAND SURVEYOR L-3317
1515 WOODY CREEK ROAD
MATTHEWS, NC 28105
704 348 1554

Note: The subject property is NOT in a Flood Hazard Area.

Error of Closure within 1:10,000

No NCGS Data found within 2000'

Fnd. 1" pipe

DB 4068/234

DB 5931-770

241.83'

S 51 09 11 E

120.00'

DB-962/309

N 86 12 05 W 245.80'

Septic Tank Drain Field Easement DB 8363/0089

Vicinity Map

Robinson Church Rd.

Irwin Rd

Ellen Croft

LEGEND

Chain Link. fence

Barbed Wire. fence

NOTES

10' Side Setback

55' Rear Setback

80' Min. Lot width at Setback

(See MB 23/193 & DB 8252/660)

Total Lot Area =
± 0.68 Ac. or
± 29,736 SF by Coord.
108-021-56

7

#7716

Fnd. ½" I.R.

6

#7710

22'

23'

42'

~3000 SQ. FT. Htd. 2 story house

60.

47' Setback line

68'

S 31 44 49 E 95.00'

S 27 48 10 E 35.38'

35' Setback

Fnd. ½" I.R.

Fnd. ½" I.R.

Fnd. ½" I.R.

Fnd. ½" I.R.

C-1

C-2

R=45'

Ellencroft Lane 40' R/W

Driveway

205.75'

40' Setback

5

#7704

C 10.8'±

N 14 20 00 W 40.00'

Sewage system access

Curve Table

C-1
Ch. Dist = 18.92
Arc. Dist = 19.40
Ch. Brg = N 34 57 50 E

C-2
Ch. Dist = 46.98
Arc. Dist = 49.43
Ch. Brg. = N 44 11 55 E

BOUNDARY SURVEY

of

Lot 6, Ellen Croft Subdivision

Crab Orchard Twp., Mecklenburg Co., North Carolina

THE PROPERTY OF: Charisse & husband David Booth

SCALE: 1" = 40'

MAP RECORDED IN BOOK 23 AT PAGE 193

DEED RECORDED IN BOOK 8252 AT PAGE 660

MCHD
File: 7082-A
Lot 6

SYSTEM TYPE:
- CONVENTIONAL
- CONVENTIONAL (SHALLOW PLACEMENT)
- 8-INCH PPBPS-GRAVITY DISTRIBUTION
- 8-INCH PPBPS-PRESSURE DISTRIBUTION
- 16-INCH PPBPS-GRAVITY DISTRIBUTION
- * 16-INCH PPBPS-PRESSURE DISTRIBUTION (3) Bedrm.
- LPPS
- OTHER

SPECIALIZED EQUIPMENT OR REQUIREMENTS:

- DROP BOX
- DISTRIBUTION BOX
- DIPPER BOX
- FLOW DIVIDER
- WASH BOX
- SPECIAL FITTINGS
- PRESSURE MANIFOLD
- SIPHON
- MULTIPLE PUMPS
- OTHER (4) Globe valves / 4 valve Boxes
- WELL ABANDONMENT
- EASEMENT
- LOT COMBINATION/SURVEY
- EARTHEN SURFACE SWELL
- FRENCH/CURTAIN DRAINS
- GREASE INTERCEPTOR
- PUMP TANK - 1,000 GAL. & float TREE
- SAPROLITE TEST
- SEPTIC TANK - 1,500 GAL.

LINE	#PANELS PER LINE	#HOLES PER PANEL	HOLE SIZE	HOLE SPACING	LINE HEAD	LINE LENGTH	HOLE FLOW	PER MINUTE LINE FLOW	ELEVATIONS
Primary									
L^1	12	1	5/32	4.3'	3	50'	.50	6	101.2
L^2	12	1	5/32	4.3'	3	50'	.50	6	101.7
L^3	12	1	5/32	4.3'	3	50'	.50	6	102.5
L^4	12	1	5/32	4.3'	3	50'	.50	6	103.1
48	PANELS					200'		24gpm	

Repair		101.2
L^1 PO	25'	101.7
L^2 PO	30'	102.5
L^3 PO	30'	103.1
L^4 PO	30'	103.8
L^A	70'	104.2
L^B	60'	
	245'	

Tim Whitaker

MLHD
FILE: 7082-A
Lot 6

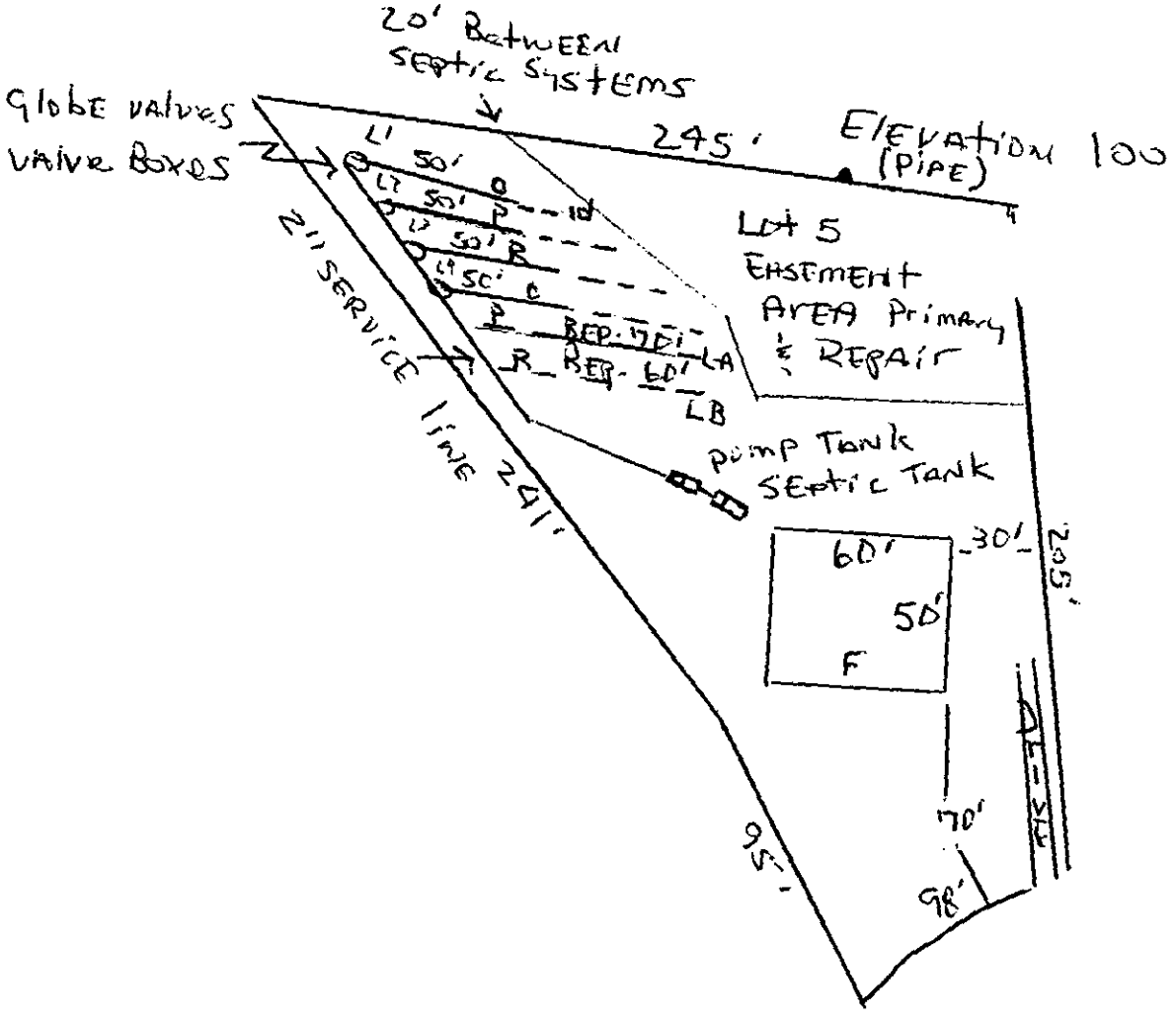
DESIGN SPECIFICATIONS

Daily waste flow	360	gal.
Septic tank size	1,500	gal.
Pumping tank size	1,000	gal.
Effluent loading rate	.3	gal/ft²/day
Absorption area	1,200	ft.
Total length of laterals	200	ft.
Lateral diameter	1¼	in.
Lateral configuration	(4) 50'	No. and length of lines
Supply line length	150	ft.
Supply line diameter	2	in.
Manifold placement	END	
Hole size*	5/32	in.
Hole spacing	4.3	ft.
Number of holes	48	
Flow per hole	.50	gpm
Total flow	24	gpm
Elevation head	7	ft.
Friction head .20% added	5.9	ft.
Pressure head	3	ft.
Total head	15.9	ft.
Pump requirements 4/10 HP	24	gpm @ 15.9 ft. of head
Storage volume in laterals	172.8	gal.
Storage volume in supply line	24.3	gal.
Total storage volume	197.1	gal.
Dosing volume	200	gal.
Dosing depth	8	in.
Check valve needed ?	NO	
Pump cycle	8.3	min.

MCHD

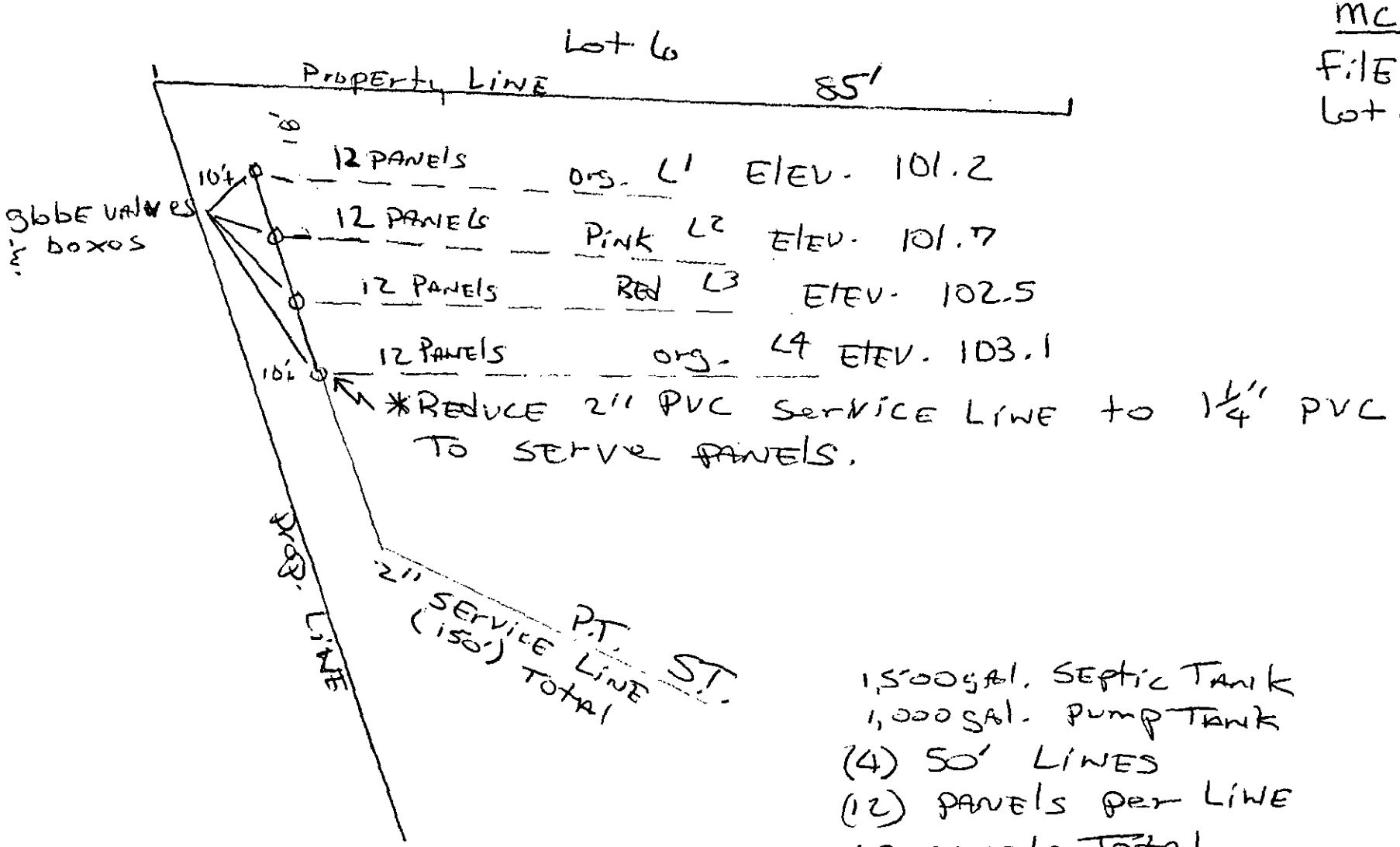
File: 7082-A
Lot 6, Ellencroft

(3) Bedrm. Pumped Panel Block Septic Sys. & Repair



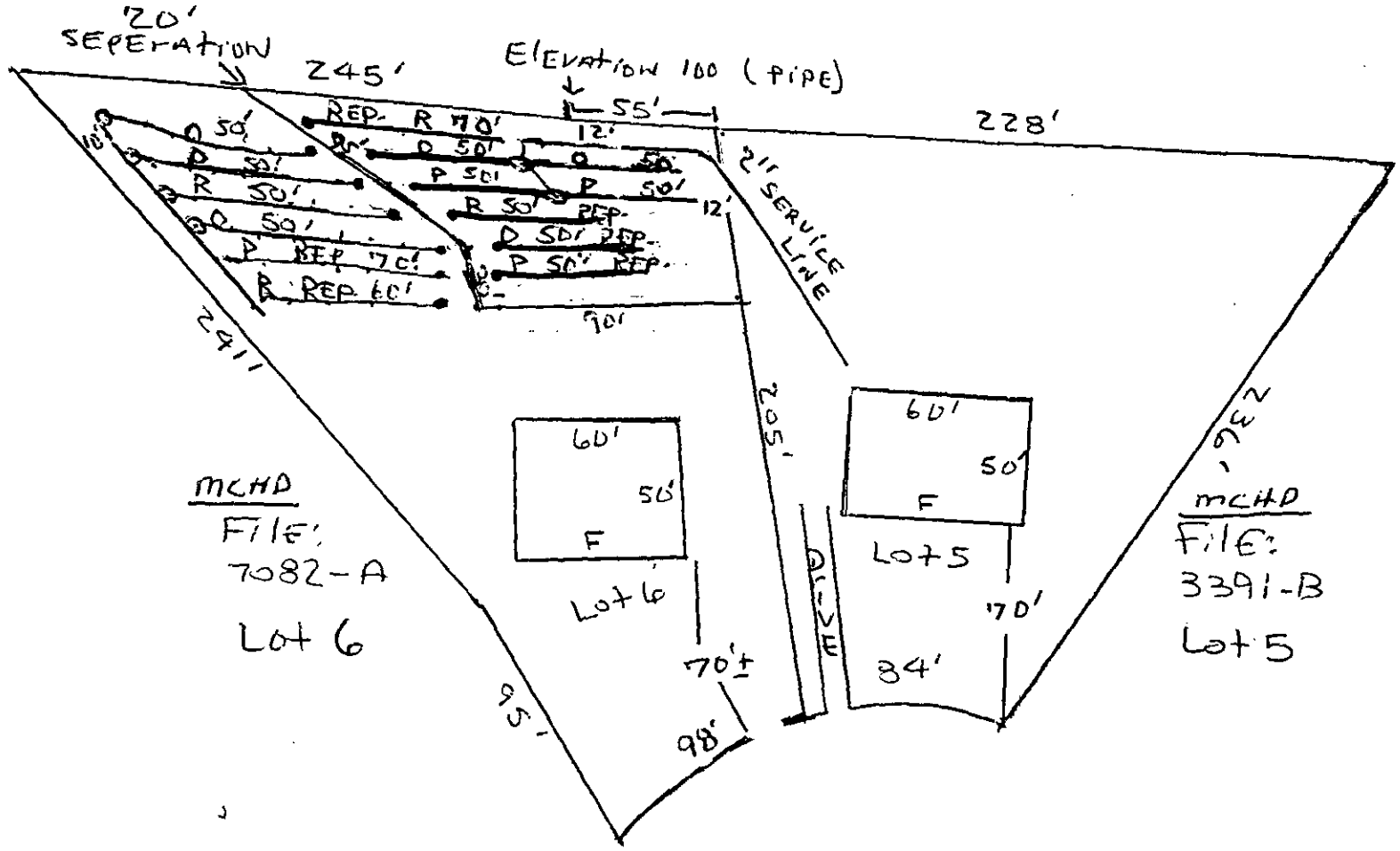
SCALE 60

MCHD
FILE: 7082-A
Lot 6



1,500 gal. Septic Tank
1,000 gal. Pump Tank
(4) 50' Lines
(12) panels per line
*48 panels Total
(4) Globe valves
(4) valve boxes

T. Lukhaker
No Scale


20' SEPERATION
245'
ELEVATION 100 (PIPE)
55'
228'
REP. R 70'
12'
D 50'
P 50'
R 50'
D 50'
P REP. 70'
R REP. 60'
21' SERVICE LINE
90'
241'
205'
60'
50'
F
Lot 6
70'±
98'
95'
60'
50'
F
Lot 5
DRIVE
70'
84'
235'
MCHD
FILE:
7082-A
Lot 6
MCHD
FILE:
3391-B
Lot 5

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

Sheet: 1
Property ID: 108021-56
Lot #: 7
File #: 7082A
Code: 2

ACS

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: David & Charisse Booth
Applicant:
Address: 7811Monfreya Ct., Charlotte, N. C. 28212
Date Evaluated: 12/08/2003
Proposed Facility: Residence
Design Flow (.1949): 480gpd
Property Size: .7a
Location of Site: 7710 Ellencroft Lane
Property Recorded:
Water Supply: [ ] Public [x] Individual [x] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	OTHER PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 6	0-8	GR/SCL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	N/A	NONE	PS, IV .2GPD/FT^2
		8-48	SBK/ABK/C	FI/SEXP/S/P					
2	"	0-21	GR/SL	FR/SEXP/NS/NP	>48" TO SOIL WETNESS	"	"	"	PS, IV .2GPD/FT^2
		21-48	SBK/SC	FI/SEXP/S/P					
3	"	0-6	FILL		2.5Y7/1@34	41	"	"	US, IV .2GPD/FT^2
		6-18	GR/SCL	FR/SEXP/SS/SP					
		18-41	SBK/SC	FI/SEXP/S/P					
4	"	0-21	GR/SCL	FR/SEXP/SS/SP	2.5Y7/1@34"	36	"	"	"
		21-36	SBK/SC	FI/SEXP/S/P					

Description	Initial System	Repair System
Available Space (.1945)	US	US
System Type(s)		
Site LTAR	.2GPD/FT^2	.2GPD/FT^2

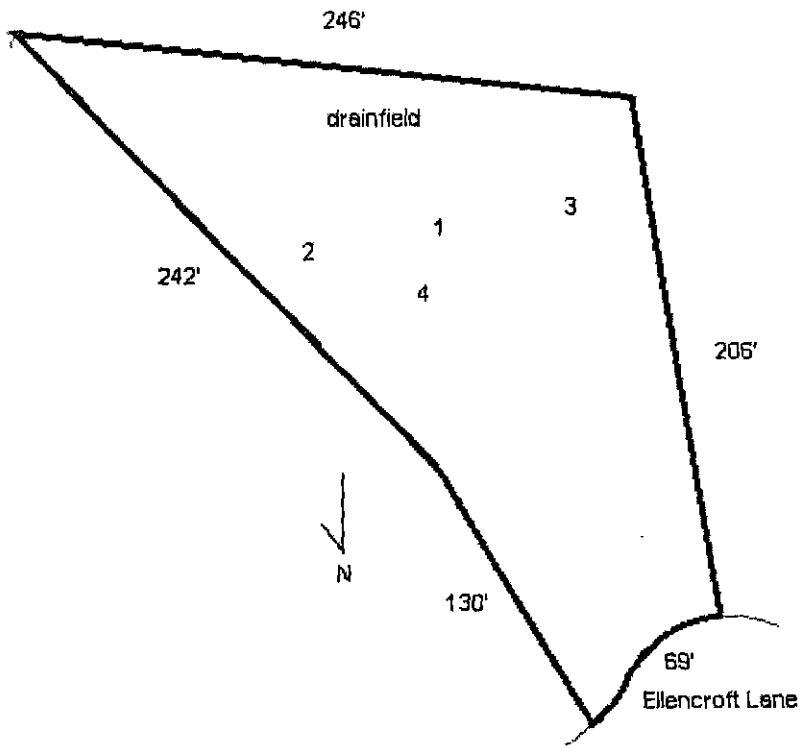
Other Factors (.1946): _____
Site Classification (.1948): UNSUITABLE
Evaluated By: W. R. Marlin, LSS, 12/8/2003, W. R. Marlin
Others Present: D. Walker, K. Randall

FILE # 7082A

COMMENTS: 100%, would need pump

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	



Rule #7082A #306 CO# 23584 9/1/92

INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM
APPLICATION FOR SERVICES

[X] CRT

Mecklenburg County Health Dept.
Environmental Health Division
c/o Hal Marshall Ctr., Suite 211
700 N. Tryon St.
Charlotte, NC 28202

(704)336-5102

PERSON FILING APPLICATION:

NAME: LEFTWICH (last) RICHARD (first) W (mi)

ADDRESS: 10203 ROCKWOOD RD PHONE: (704) 372-4281 W
(704) 597-9523

CITY: CHARLOTTE STATE: NC ZIPCODE: 28215

Date: 9-1-92

PROPERTY INFORMATION (FROM ENGINEERING FORM):

TAX/PARCEL NUMBER: 109-021-56

STREET ADDRESS: 7710 ELEANCRAFT

ZONING:

PROPERTY OWNER:

NAME: SAME (last) (first) (mi)

ADDRESS: _____ PHONE: (__) _____

CITY: STATE: ZIPCODE:

SUBDIVISION OR MOBILE HOME PARK NAME: ELEANCRAFT

Township (check one):
[X] 0 Mecklenburg County [ ] 2 Davidson [ ] 4 Pineville [ ] 6 Huntersville
[ ] 1 Charlotte [ ] 3 Cornelius [ ] 5 Matthews [ ] 7 Mint Hill

TYPE APPLICATION (check one):

LOT NUMBER: LOT SIZE (in acres):

[ ] SOIL TEST - INDIVIDUAL LOT (D)
[X] NEW CONSTRUCTION ON VACANT LOT - 4 BEDROOMS OR LESS (N)
[ ] EXCHANGE MOBILE HOME - SAME # BEDROOMS (Y)
[ ] ADDITION - INCREASE ROOMS/OCCUPANCY/MOBILE HOME SIZE (A or M)
[ ] COMMERCIAL OR INDUSTRIAL (N)
[ ] SOIL TEST DEVELOPMENT (P)
[ ] ADDITION - GARAGE OR RENOVATION/NO MAJOR CHANGES (X)
[X] MODIFIED /ALTERNATIVE/ OR RESIDENCE > 4 BEDROOMS (Z)
[ ] REPAIR TO SYSTEM (R)

RESIDENTIAL PROPERTY (Type Building, check one):
[ ] SINGLE MOBILE HOME (S) [ ] HOUSE (H) [ ] MULTIPLE FAMILY (U)
[ ] DOUBLE WIDE (D) [ ] MODULAR HOME (M) [ ] OTHER _____ (O)

NUMBER BEDROOMS: 3 NUMBER OCCUPANTS: 3

SYSTEM CLASSIFICATION:

COMMERCIAL/INDUSTRIAL PROPERTY:
Type Business _____ # Employees ___ Per Shift ___ ___ ___
Industrial Wastes (Y/N) ___
Underground Storage Tanks On Property (Y/N) ___ Type _____

WATER SUPPLY (check one):
[ ] Community (C) [ ] Shared Well (S)
[ ] Municipal (M) [ ] Other 'spring' (O)
[X] Private Well (P)

FUTURE ADDITIONS - ALL PLANNED ADDITIONS MUST BE ENTERED (check all that apply):
[ ] Swimming Pool [ ] Jacuzzi [ ] Stable/Barn [ ] Workshop [ ] None
[ ] Garage [ ] Storage Building [X] Deck/Patio [ ] Bedrooms [X] Other SALT RAIL FENCE

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: [signature] Date: 9-1-92

NOTICE:

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the 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 approval is granted by this Department.

...This permit is not transferable.

...sufficient area found in area I soils for conventional system installation (102)

[ ] IMPROVEMENT PERMIT - VALID 60 MONTHS FROM ISSUANCE
[ ] MOBILE HOME EXCHANGE APPROVAL - VALID 6 MONTHS FROM ISSUANCE
[ ] ADDITION/RENOVATION APPROVAL - VALID 1 YEAR FROM ISSUANCE

Environmentalist Date

[signature] 9-22-92
Director or Authorized Section Head Date

WATER : 122791

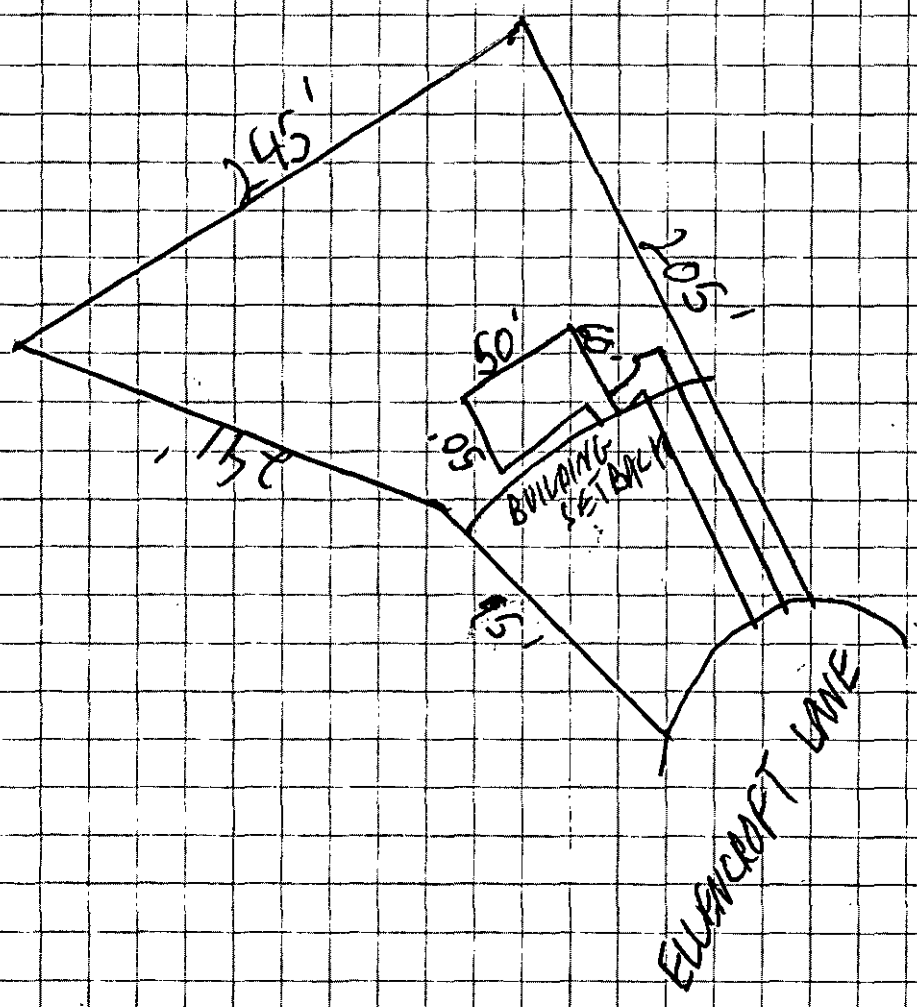
PROPOSED PLOT PLAN

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

FILE: 7062A

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.



APPROVAL DATE _____

White - Health Department's Copy Canary - Environmentalist's Copy Pink - Owner's Copy

Mecklenburg County
Health Department

October 11, 1995

Mr. Jim Potter
8312 Caldwell Road
Harrisburg, NC 28075

Re: 7710 Ellencroft Lane
File: 7082A
Parcel: 108-021-56

Dear Mr. Potter:

Receipt of your Application for Improvement Permit for the above referenced property is acknowledged. A soil evaluation and a site visit have been conducted. The results of the evaluation indicated that the site is **UNSUITABLE** under Rules .1945 **AVAILABLE SPACE,** and .1941 **SOIL CHARACTERISTICS (MORPHOLOGY).** For these reasons your Application for Improvement Permit is denied. A possible way to develop the site exists under Rule .1948(d) which reads as follows:

> A site classified as **UNSUITABLE** may be used for a ground absorption sewage treatment and disposal system specifically identified in Rules .1955, .1956, or .1957 of this Section or a system approved under Rule .1969 if written documentation, including engineering, hydrogeologic, geologic or soil studies, indicates to the local health department that the proposed system can be expected to function satisfactorily. Such sites shall be reclassified as **PROVISIONALLY SUITABLE** if the local health department determines that the substantiating data indicate that:
> (1) a ground absorption system can be installed so that the effluent will be non-pathogenic, non-infectious, non-toxic, and non-hazardous;
> (2) the effluent will not contaminate ground or surface water; and
> (3) the effluent will not be exposed on the ground surface or be discharged to surface waters where it could come in contact with people, animals, or vectors.

The State shall review the substantiating data if requested by the local health department.

Please be advised that you have the right to an informal review by this department. You also have the right to appeal under G.S. 130A-24, and to have the appeal held in Mecklenburg County.

If you have any questions regarding this matter, please call me at 336-5575.

Sincerely,

Kelly Randall

Kelly Randall, R.S., Soil Scientist
Individual Water and Wastewater Systems

(3) Bedrm. Pumped (PPBPS)

MCHD
File: 7082-A
Lot 6

SYSTEM TYPE:
- CONVENTIONAL
- CONVENTIONAL (SHALLOW PLACEMENT)
- 8-INCH PPBPS-GRAVITY DISTRIBUTION
- 8-INCH PPBPS-PRESSURE DISTRIBUTION
- 16-INCH PPBPS-GRAVITY DISTRIBUTION
- *16-INCH PPBPS-PRESSURE DISTRIBUTION (3) Bedrm.
- LPPS
- OTHER

SPECIALIZED EQUIPMENT OR REQUIREMENTS:

- DROP BOX
- DISTRIBUTION BOX
- DIPPER BOX
- FLOW DIVIDER
- WASH BOX
- SPECIAL FITTINGS
- PRESSURE MANIFOLD
- SIPHON
- MULTIPLE PUMPS
- OTHER (4) Globe valves / 4 valve Boxes
- WELL ABANDONMENT
- EASEMENT
- *LOT COMBINATION/SURVEY
- EARTHEN SURFACE SWELL
- FRENCH/CURTAIN DRAINS
- GREASE INTERCEPTOR
- PUMP TANK - 1,000 GAL. & float TREE
- SAPROLITE TEST
- Septic Tank - 1,500 GAL.

LINE Primary	#PANELS PER LINE	#HOLES PER PANEL	HOLE SIZE	HOLE SPACING	LINE HEAD	LINE LENGTH	HOLE FLOW	PER MINUTE LINE FLOW	ELEVATIONS
									101.2
L1	12	1	5/32	4.3'	3	50'	.50	6	101.7
L2	12	1	5/32	4.3'	3	50'	.50	6	102.5
L3	12	1	5/32	4.3'	3	50'	.50	6	103.1
L4	12	1	5/32	4.3'	3	50'	.50	6	
	48 PANELS					200'		24gpm	

REPAIR		
		101.2
L1 PO	10'	101.7
L2 PO	15'	102.5
L3 PO	10'	103.1
L4 PO	40'	
	~~80'~~	103.8
LA	47'	104.2
LB	202'	

Tim Whittaker

See File #

3391B for

Easement

MLHD
FILE: 7082-A
Lot 6

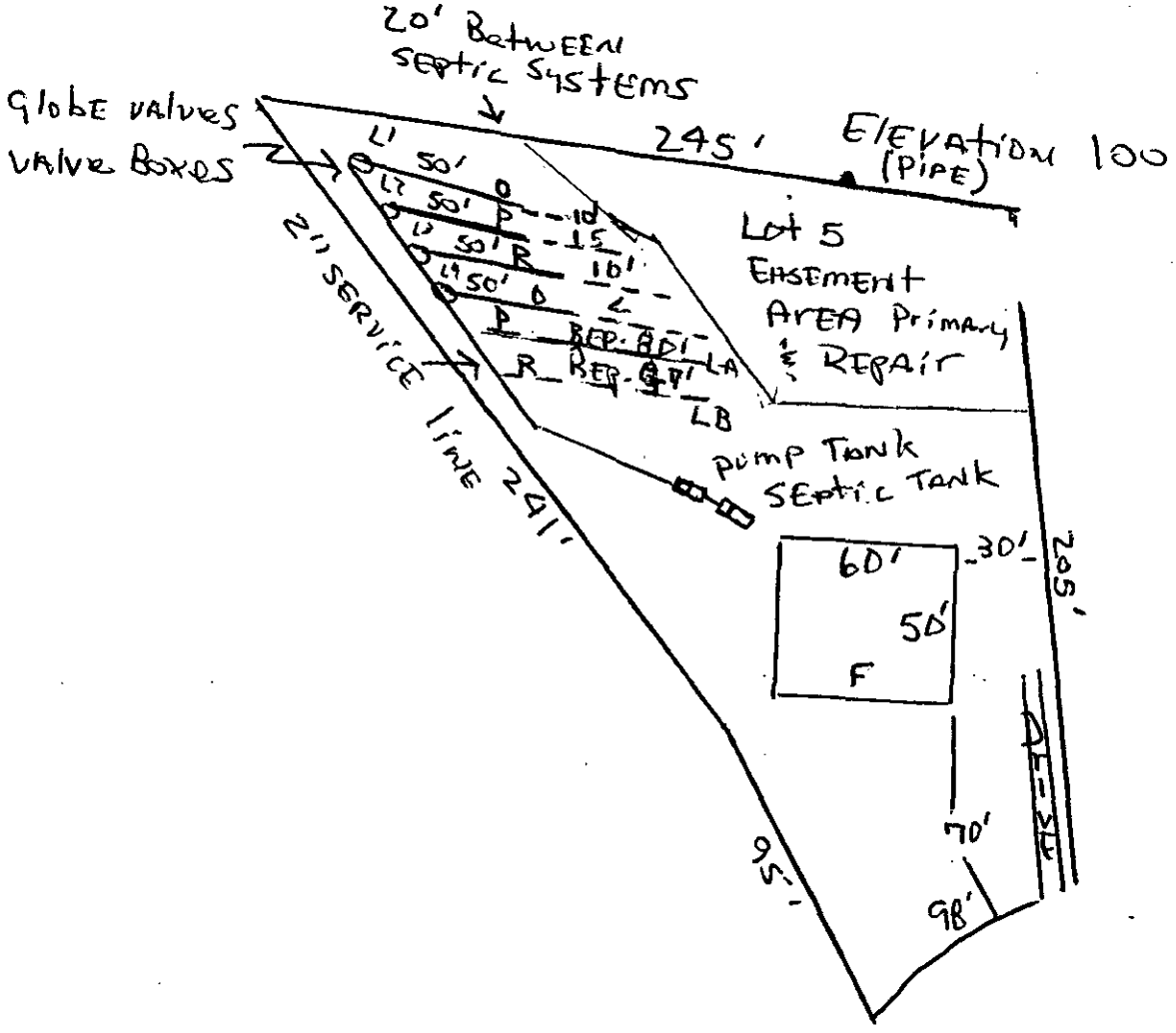
DESIGN SPECIFICATIONS

Daily waste flow	360	gal.
Septic tank size	1,500	gal.
Pumping tank size	1,000	gal.
Effluent loading rate	.3	gal/ft²/day
Absorption area	1,200	ft.
Total length of laterals	200	ft.
Lateral diameter	1¼	in.
Lateral configuration	(4) 50'	No. and length of lines
Supply line length	150	ft.
Supply line diameter	12	in.
Manifold placement	END	
Hole size*	5/32	in.
Hole spacing	4.3	ft.
Number of holes	48	
Flow per hole	.50	gpm
Total flow	24	gpm
Elevation head	7	ft.
Friction head .20% added	5.9	ft.
Pressure head	3	ft.
Total head	15.9	ft.
Pump requirements 4/10 HP	24	gpm @ 15.9 ft. of head
Storage volume in laterals	172.8	gal.
Storage volume in supply line	24.3	gal.
Total storage volume	197.1	gal.
Dosing volume	200	gal.
Dosing depth	8	in.
Check valve needed ?	NO	
pump cycle	8.3	min.

MCHD

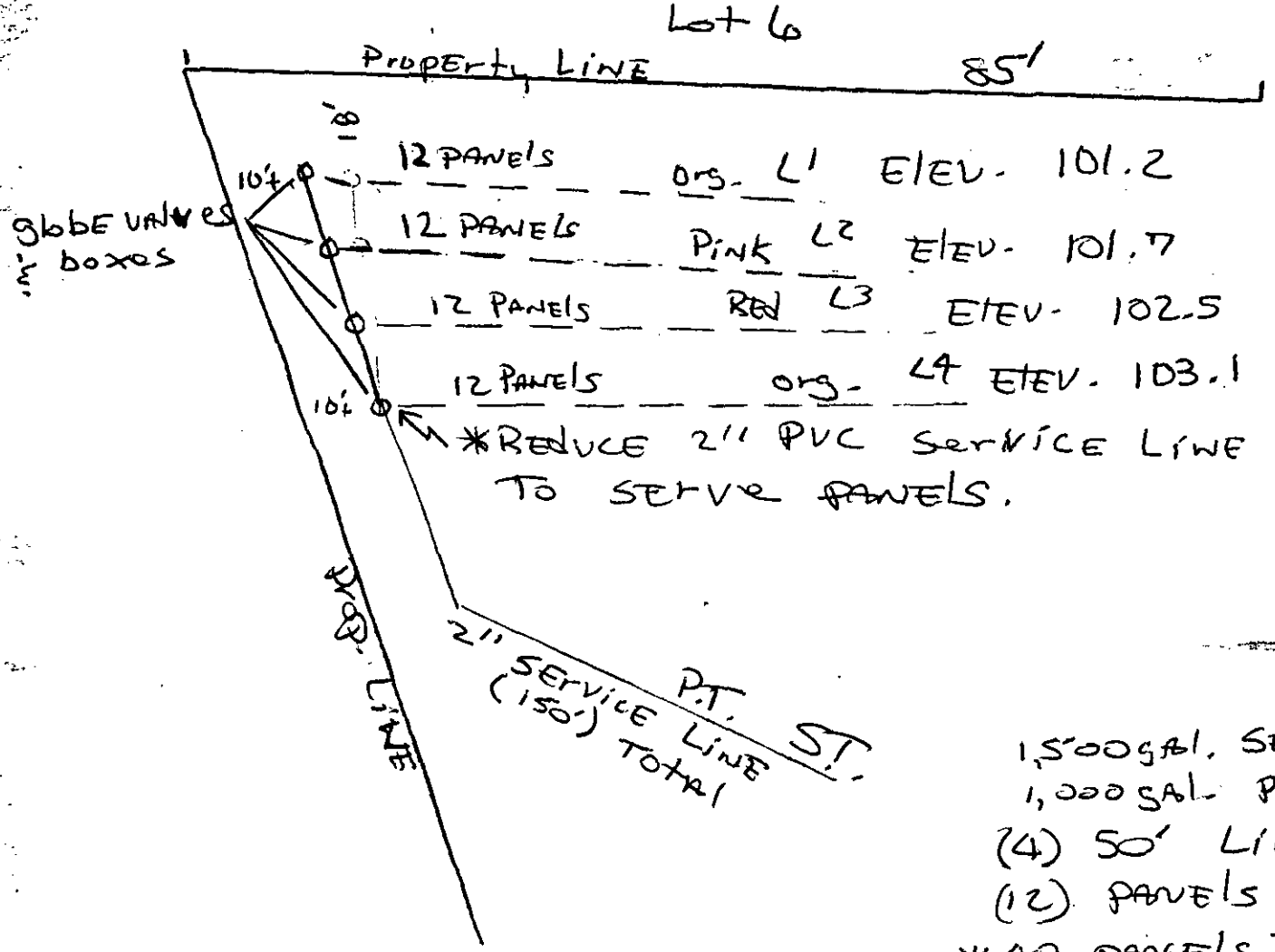
File: 7082-A
Lot 6, Ellencroft

(3) Bedrm. Pumped Panel Block
Septic Sys. & Repair



Scale 60

MCHD
FILE: 7082-A
Lot 6



1,500 GAL. SEPTIC TANK
1,000 GAL. PUMP TANK
(4) 50' LINES
(12) PANELS PER LINE
*48 PANELS TOTAL
(4) GLOBE VALVES
(4) VALVE BOXES

T. Twitchell
NO SCALE

Mecklenburg County
Health Department

October 25th, 1991

First American Savings Bank, F.S.B.
4411 West Market Street
Greensboro, NC 27407

RE: Property located at 7710 Ellencroft Lane Lot 6/1
FILE: 7082A
PARCEL: 108-021-56

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 16758) 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,

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

Enclosure (2)

MECKLENBURG COUNTY HEALTH DEPARTMENT
SITE EVALUATION REPORT
SERIAL NUMBER 16758

File:

Action 2

Parcel: 7082A
108-021-56

~~LPC~~

Location:

Subdivision: 7710 Ellencroft Lane

Lot: Lot 6/1

Block:

Acres: Approx .7

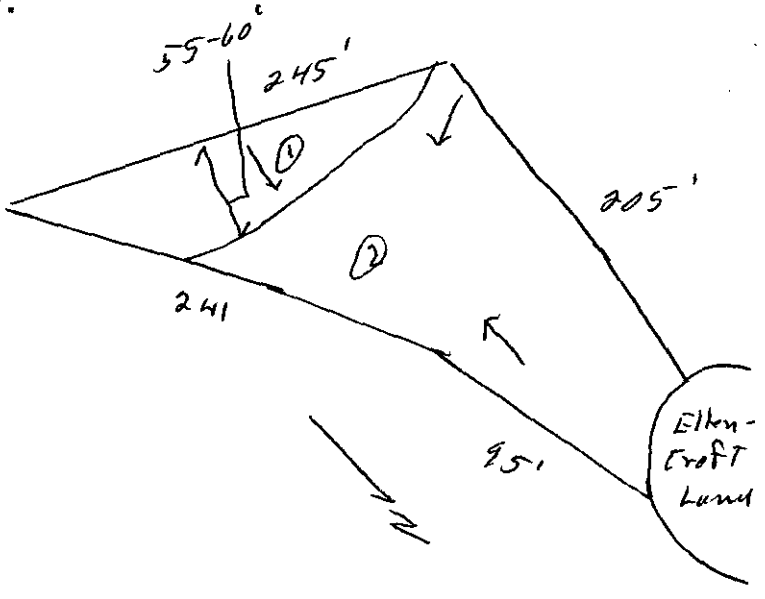
Owner:

Address: First American Savings Bank, F.S.B.
4411 West Market Street
Greensboro, NC 27407

Comments: 100% Repair, system would probably need pump

Described by: William R. Marbi

Date: 10-23-91



***** 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 2-6%	S PS (U) 2-4%	S PS U	S PS U	S PS U	S PS U
Texture	S (PS) U Clay	S PS (U) Expansive Clay 24-36"	S PS U	S PS U	S PS U	S PS U
Structure	S (PS) U Sub>Blocky	S (PS) U L & SBK Blocky	S PS U	S PS U	S PS U	S PS U
Drainage	S (PS) U >40" To water	S PS (U) Perched water 29-36"	S PS U	S PS U	S PS U	S PS U
Depth	S (PS) U 40"+	S (PS) U 36"+	S PS U	S PS U	S PS U	S PS U
Restrictive Horizons	S (PS) U >40"	S (PS) U >36"	S PS U	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	III Cecil-Lilly	Helena/ Depression				
Area Classification	S PS (U)	S PS (U)	S PS U	S PS U	S PS U	S PS U

W. CHRIS PARNELL, P.A.
Attorney at Law
2901 Coltsgate Road, Suite 102
Charlotte, North Carolina 28211

Telephone
(704) 365-5509
(704) 366-6222

Telecopier
704-365-8381

ENCLOSURE MEMO

TO: Kelly Randal
IWWS
700 N. Tryon St., Suite 211
Charlotte, NC 28202

RE: John J. Mancino, Lot 6, Ellencroft

FROM: Jennie Owens

DATE: November 20, 1995

ENCLOSURES:

Copy of recorded Septic Tank Drain Field Easement Agreement
Copy of recorded plat

Drawn by and return to W. Chris Parnell, Box 108 (no title examination)

COPY

STATE OF NORTH CAROLINA

SEPTIC TANK DRAIN FIELD
EASEMENT AGREEMENT

COUNTY OF MECKLENBURG

JUDITH A GIBSON REG OF DEEDS MECK NC
FILED FOR REGISTRATION 11/14/95 14:36
BK: 08363 PG: 0089/0091 #:0217 12.00

THIS EASEMENT made this 14th day of November, 1995, by John J. Mancino, and wife, Margaret E. Mancino as Grantor;

WITNESSETH:

WHEREAS, Grantor is owner of certain property located in Crab Orchard Township, Mecklenburg County, North Carolina, said property being designated as Lots 5 and 6 of map entitled "Ellen Croft" and recorded in Map Book 23 at page 193 in the Office of the Register of Deeds for Mecklenburg County, North Carolina; and

WHEREAS, Grantor desires to designate an area of Lot 6 as a septic tank drain field area for the benefit of Lot 5 as shown on said map.

NOW, THEREFORE, Grantor hereby designates the following described parcel as a septic tank drain field area created for the benefit of Lot 5 hereinabove referred to:

> BEING a portion of Lot 6 of Ellen Croft as shown on map thereof recorded in Map Book 23 at page 193 in the Office of the Register of Deeds for Mecklenburg County, North Carolina and being more particularly described as follows: BEGINNING at a point located in the common boundary line of Lots 5 and 6 as shown on map recorded in Map Book 23 at page 193, said beginning point being located S. 14-20-00 E. 165.78 feet from the common front corner of said Lots 5 and 6; and running thence from said beginning point with the common boundary line of said Lots S. 14-20-00 E. 40 feet to a point marking the common rear corner of said Lots 5 and 6; thence with the rear boundary line of Lot 6, S. 86-12-05 E. 245.80 feet to a point marking the common rear corner of Lots 6 and 7 as shown on the above referred to map; thence with the common boundary line of said Lots 6 and 7 N. 51-09-11 W. 120 feet to a point in the common boundary line of Lots 6 and 7; thence in a westerly direction approximately 150 feet to the point and place of BEGINNING.

The above described septic tank drain field area may be used by any owner of Lot 2 hereinabove referred to for the purpose of inspecting, maintaining, repairing and replacing a drain field located upon said area.

Grantor reserves the right to allow further use of the easement area for the purpose of installing septic lines across said area for the benefit of Lot 6; provided, however, any such further use shall not interfere with the use of said area by any owner of Lot 5.

Said Easement is appurtenant to and shall run with the land designated Lot 5 on the above referred to recorded map.

IN WITNESS WHEREOF, Grantor has set their hands and seals all as of the day and year first above written.

GRANTOR:

_____ (SEAL)
John J. Mancino

_____ (SEAL)
Margaret E. Mancino

STATE OF NORTH CAROLINA

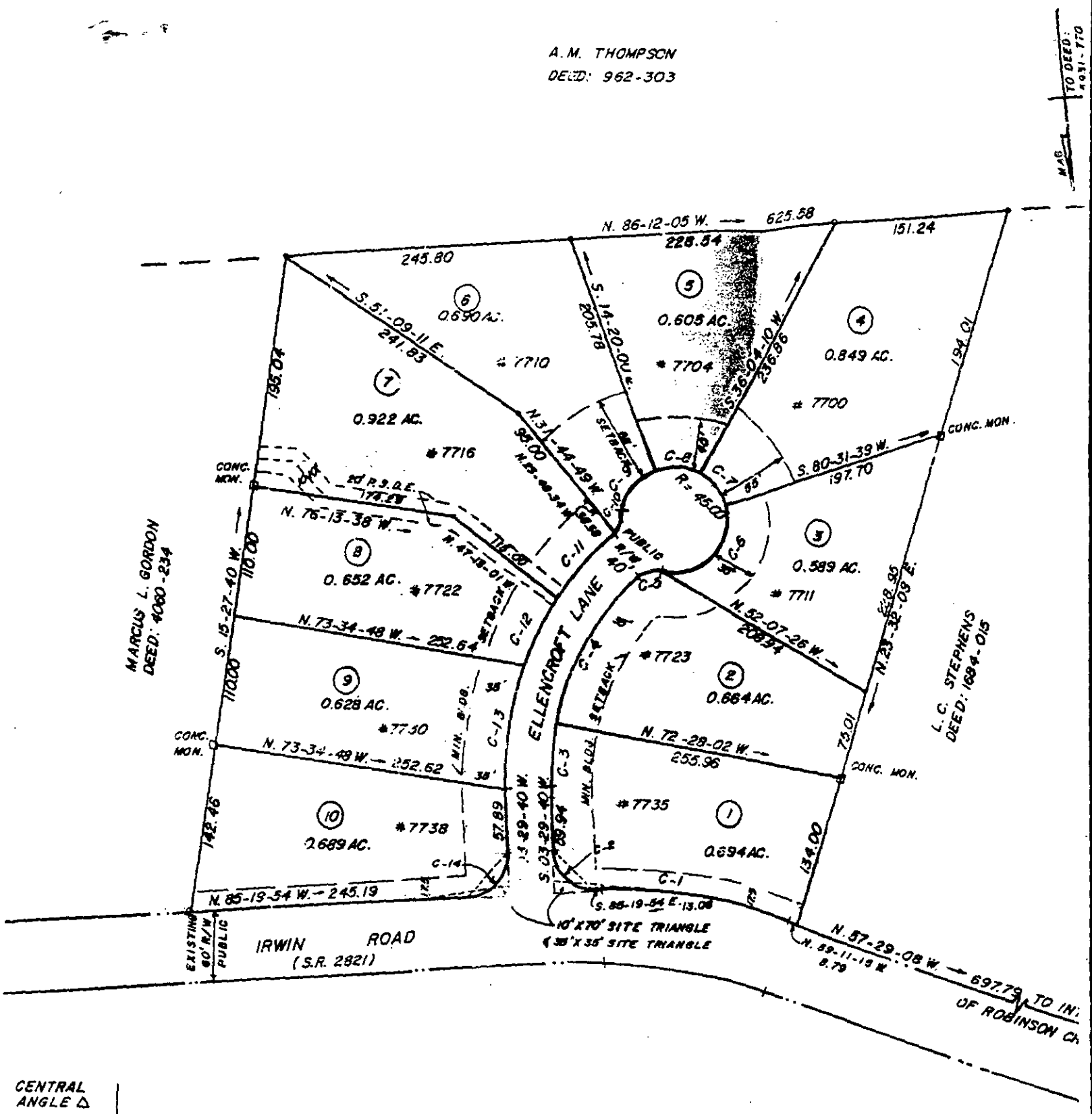
COUNTY OF MECKLENBURG

I, Jennifer L. Owens, a Notary Public of the County of Mecklenburg, State of North Carolina, do hereby certify that John J. Mancino and wife, Margaret E. Mancino personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this 14th day of November, 1995.

_____
Notary Public

My commission expires: 11-5-96



CENTRAL ANGLE Δ
26-08-36
88-49-34
13-45-04
37-35-00
7-18-15
121-36-20
14-27-29

State of North Carolina
County of MECKLENBURG

I, J. C. JENNINGS a Notary Public for said County and State, do hereby certify that ROBERT H. SALE, P.L.S. REGISTERED LAND SURVEYOR personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and seal this 5TH day of JUNE, 1985

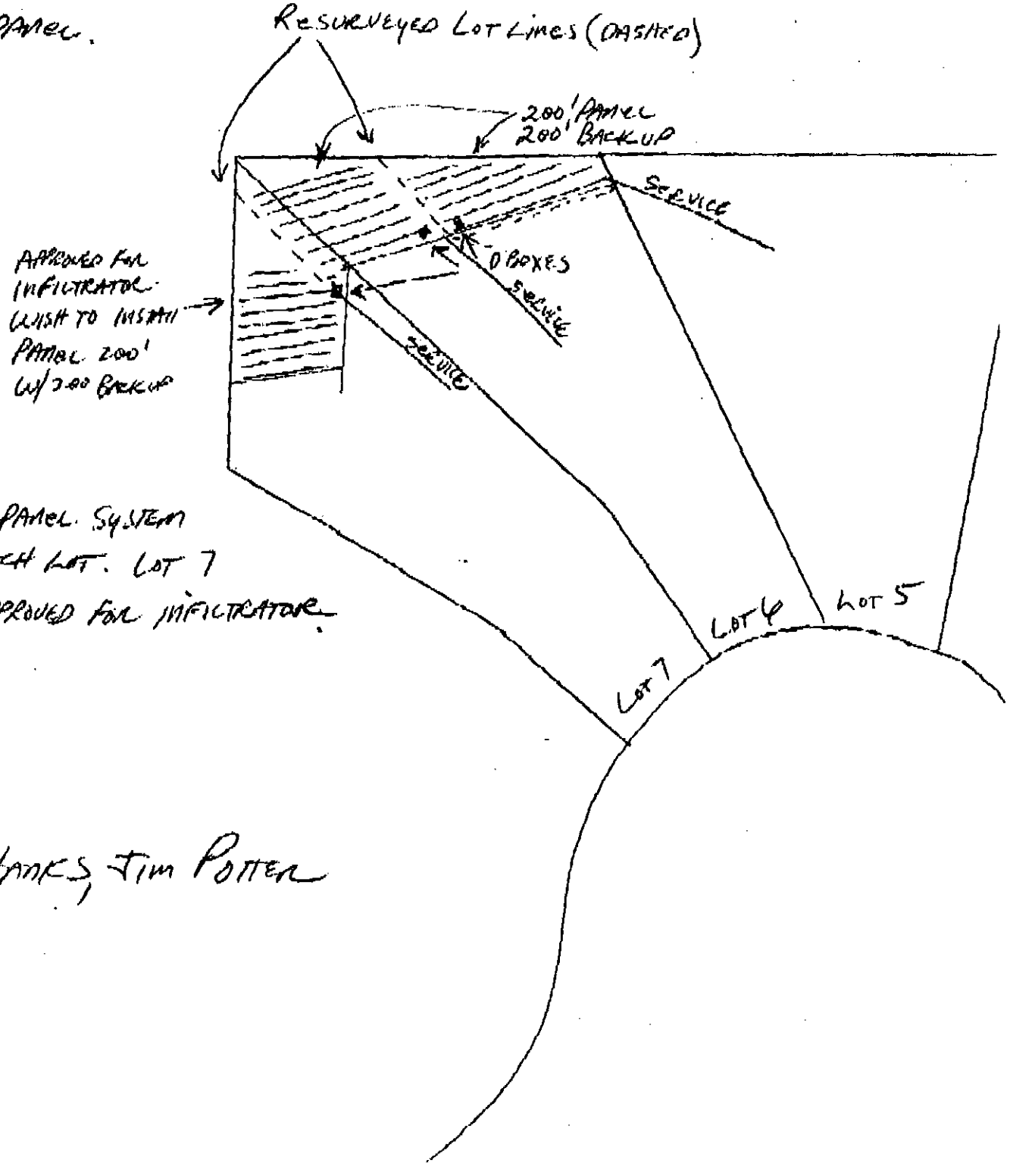
The undersigned Surveyor, being duly sworn, deposes and says that the plat upon which this certificate appears was prepared in accordance with G.S. 47-30 as amended, is in all respects correct according to the best of his knowledge and belief, and was prepared from an actual survey made by him on the 5TH day of JUNE, 1985 with a maximum linear error of closure of 1:10,000 and a maximum field error of angular closure of 7.5" per angle.

10/17/95

ATT: Bill MARLIN & Kelly Ramage

FROM: -Tim Potter PHONE & FAX 455-6572

Bill As Per our Conversation this AM This sketch Shows How I wish to take Area from Lot 7 needed for Lot 6 Panel & Area from Lot 6 for Lot 5 Panel.



Propose - Panel System on each Lot. Lot 7 Now Approved for Infiltrator.

Thanks, Tim Potter

Mecklenburg County

Health Department

Betty S. Snow, R.N., M.A.
Health Director

M E M O R A N D U M

TO: Susan Uzzell
Accountant II

FROM: Sylvia D. Daniel, R.S.
Program Chief

Date: November 05, 1992

Ref: File 7082A

SUBJECT: Refund

(Mr./Mrs./Co.) Ms. Leslie Leftwich originally paid 300.00 for an improvement application for an alternate/modified system on September 01, 1992.

A refund should be issued for $100.00 because because it was discovered that an alternate system of sewage was not necessary and a conventional system would be applicable.

Please make check payable to: Ms. Leslie Leftwich
10203 Rockwood Road
Charlotte, NC 28215

Pd 30.00
9-1-92
acct 2384.

Date: Sept. 03, 1992

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

To: Rick Leftwich
10203 Rockwood Road
Charlotte, N.C. 28215
Phone 704-372-4281 w 704-597-9423 h

Subject: Lot 6 Ellencroft Lane Mecklenburg County
File # : 7082A
Parcel : 10802156 PO

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

This system is designed for a three bedroom house at an application rate of .3 gpd. 360/.3 = 1200/3 = 400 LF of conventional drainfield multiplied by .5 = 200 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.

FROM: RICK LEFT MSG

If transmission is garbled or problems occur, call (704) 372-4281.

372-4281 w

597 9423 H

3 Bedroom

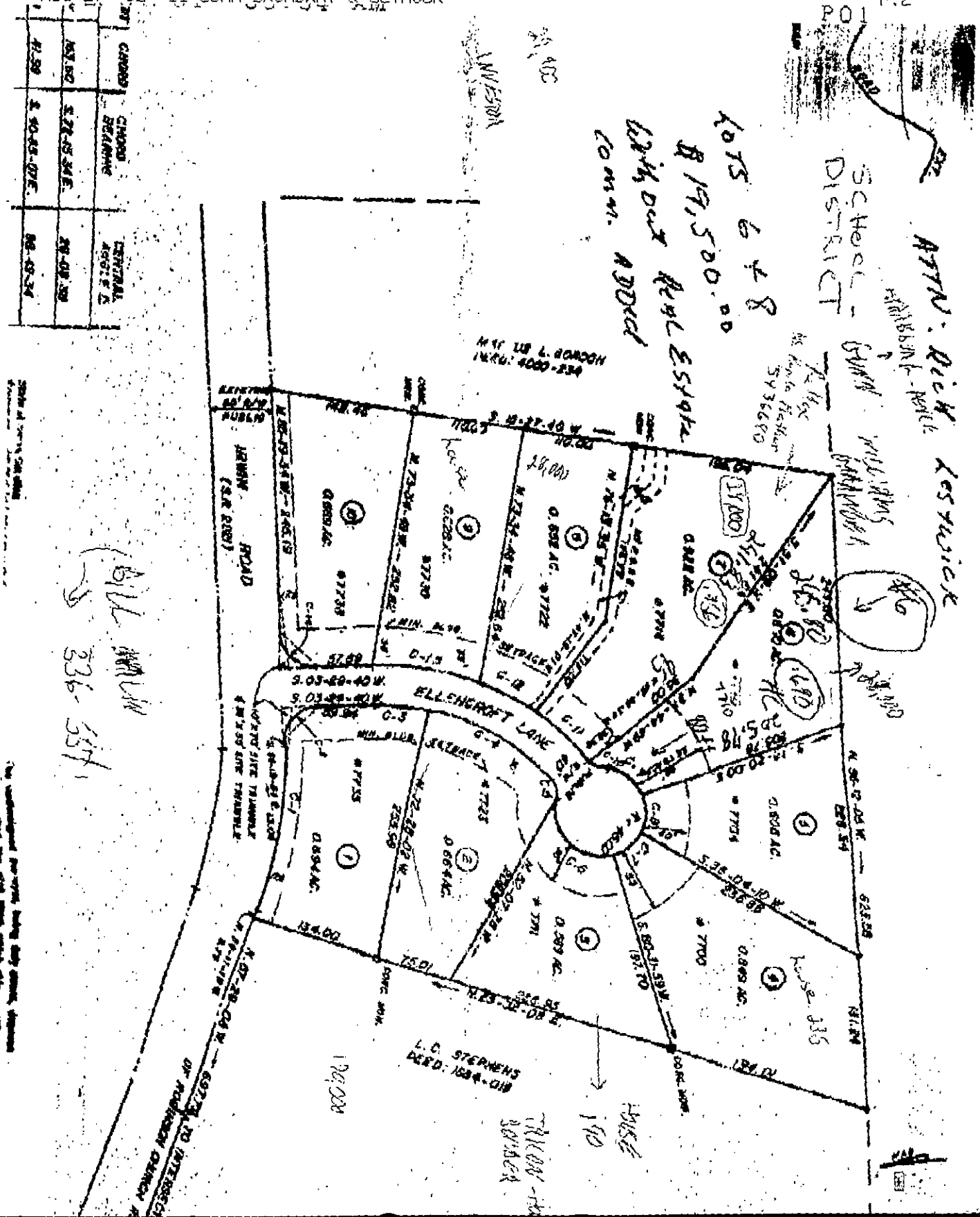
2200

ATTN: RICK KOSMICK

SCHOOL-DISTRICT

LOTS 6 & 8 @ $17,500.00 EACH

Lying out Rt 64 to min. ROAD



MECKLENBURG COUNTY HEALTH DEPARTMENT

SITE EVALUATION REPORT
SERIAL NUMBER 16758

File: Action

Parcel: 7002A 109-021-56

Location:

Subdivision: 7710 Ellencroft Lane

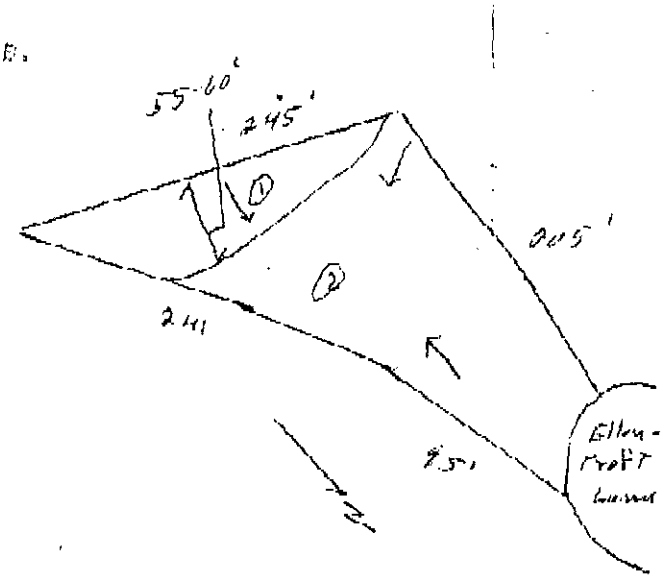
Lot: Lot 6/1 Block: Acres: Approx .7

Owner:
Address: First American Savings Bank, F.S.B.
4911 West Market Street
Greensboro, NC 27407

Comments: Soil Report, septic system would probably need pumping.

Described by: William R. Marlin

Date: 10-23-91



*** 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 2-6%	S PS (U) 2-4%	S PS U	S PS U	S PS U	S PS U
Texture	S (PS) U Clay	S PS (U) Loam 3-36" Clay 36-72"	S PS U	S PS U	S PS U	S PS U
Structure	S (PS) U Subangular blocky	S (PS) U Subangular blocky	S PS U	S PS U	S PS U	S PS U
Drainage	S (PS) U >40" To seasonal water table	S PS (U) Perched seasonal water table 28-72"	S PS U	S PS U	S PS U	S PS U
Depth	S (PS) U 40"+	S (PS) U 36"+	S PS U	S PS U	S PS U	S PS U
Restrictive Horizons	S (PS) U >40"	S (PS) U >36"	S PS U	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	Tat Cec. I.I. (S	Unnamed Depression				

Mecklenburg County
Health Department

October 25th, 1991

Line	# Panel	# Hole Per Panel	Size Hole	Line Head	Line Length	Hole Flow	Per Panel Line Flow min
A	23	one	3/16	2.0ft	100 '	.59	13.57
B	23	one	3/16	2.0ft	100 '	.59	13.57
D		repair			100 '		
E		repair			100 '		
Totals	46				200 '		27.44

CALCULATIONS FOR PUMPED SYSTEMS:

Head: Friction loss = 1.67
Total lift = 17.50 (100.10 + 2 - 84.60 = 17.50) elev.
TDH = 19.17
20% margin = 24 ft (19.17 / .8 = 23.96 = 24 ft)

Pump Size: 35 (27.44/.8) gallon per minute at 24 feet of head.

Pump cycle should be 6.1 min or 167 gallons.

Note: Each line shall have a globe valve as shown in the detail for pressure adjustment. Each valve or gruop of valves shall be placed inside a plastic valve box with a lid at ground level. Turn ups shall be cut off 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 used for setting the heads shall be marked as to the line that they go to and saved for future system adjustment. Mark each valve and turn up end with marker to show what valve goes with what turn up.

Friction loss:

supply line = 90 lf = .90 * 1.54 = 1.39

fittings = 1.39 * .2 = 0.28

total 1.67

MECKLENBURG COUNTY

LOT 6 ELLENCROFT LANE

FILE # 7082A

DATE: 9-3-92

SCALE 1" = 40'

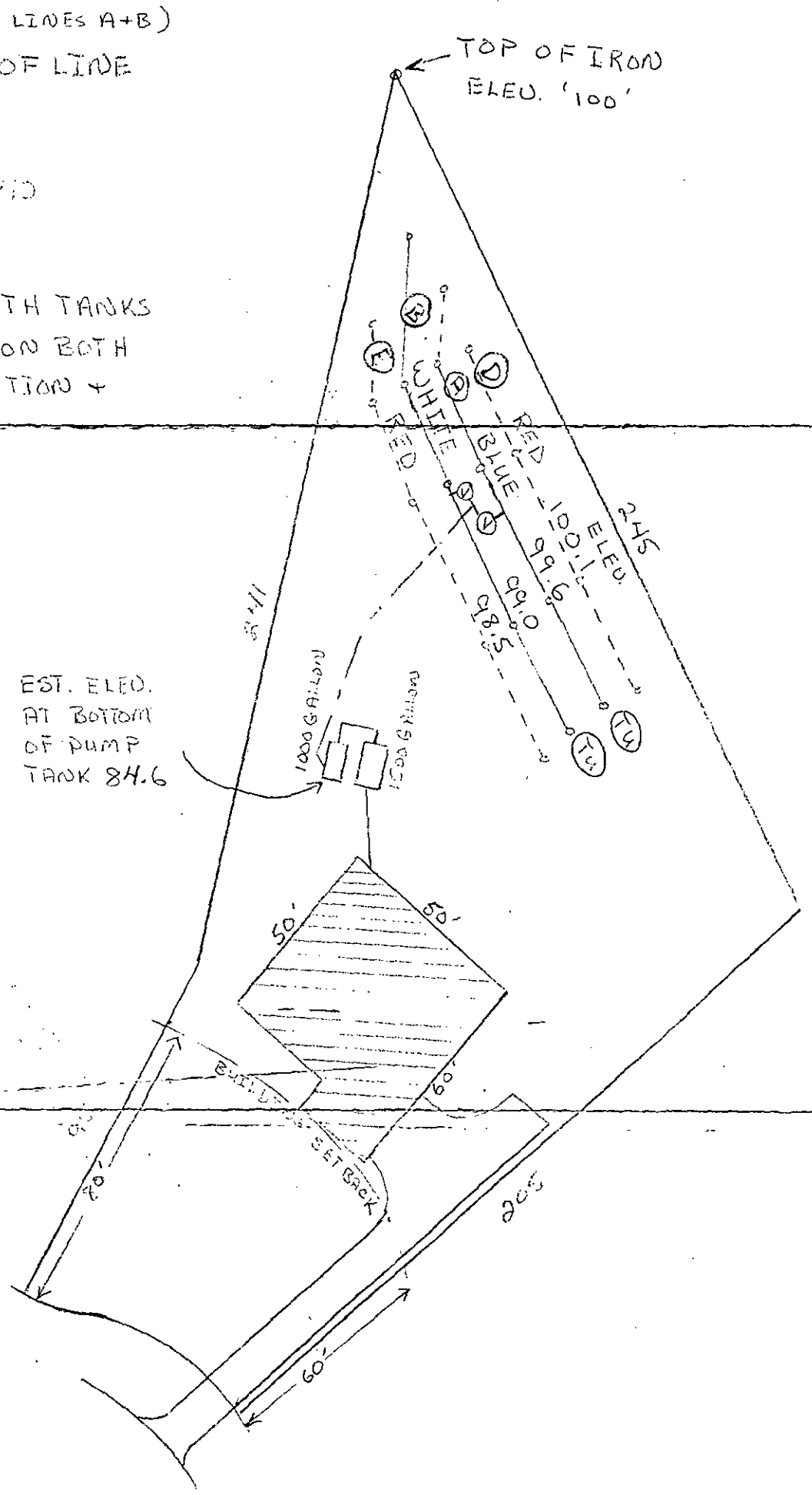
o FLAG MARKER

(V) PVC GLOBE VALVE
(TIE IN AT CENTER OF LINES A+B)

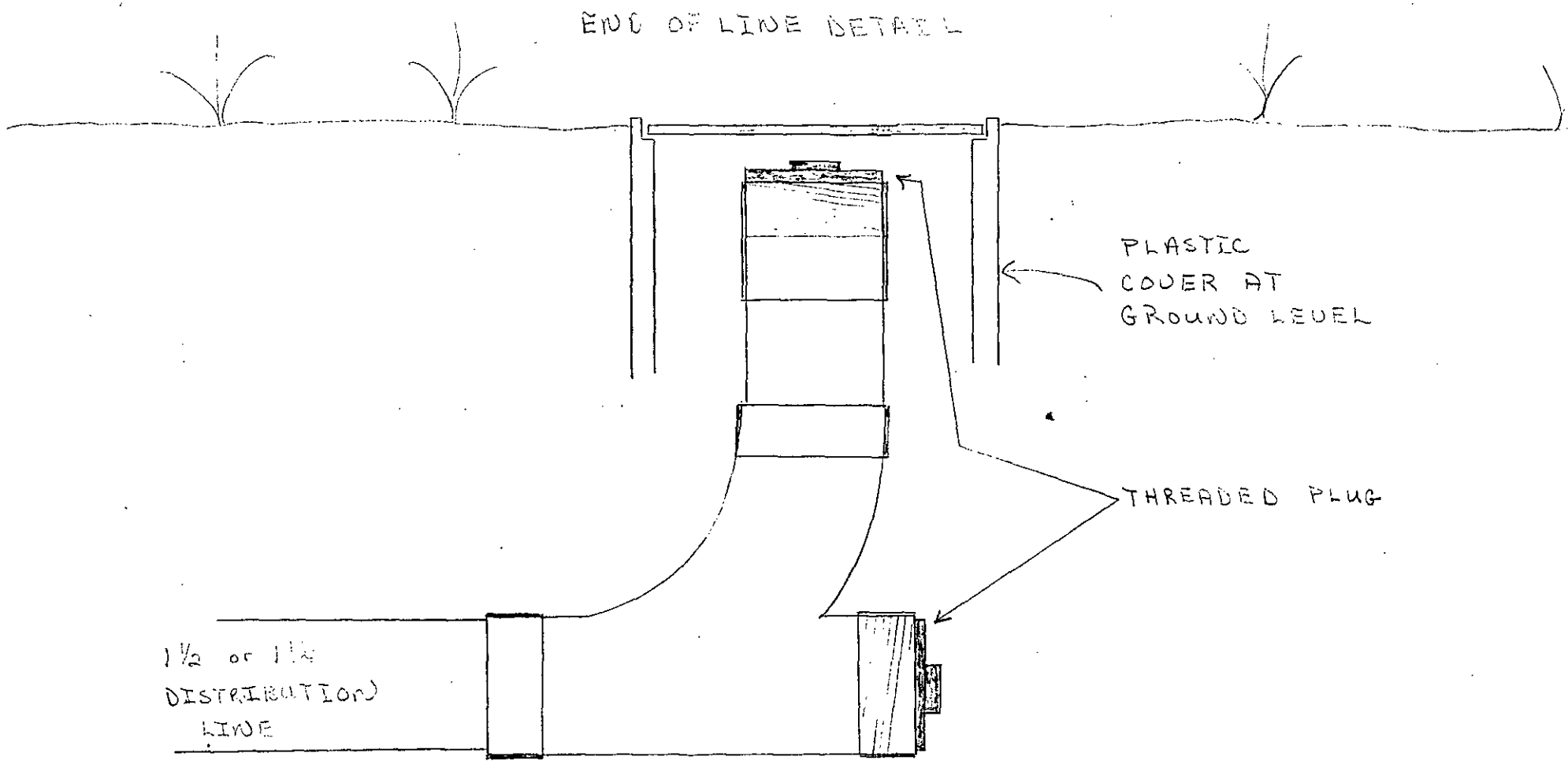
(TU) TURN UP HT END OF LINE
(SEE DETAIL)

— — — 2 INCH PVC SCH. 40
SUPPLY LINE

NOTE: DOUBLE SEAL BOTH TANKS AND PLACE RISERS ON BOTH TANKS FOR INSPECTION + MAINTENANCE



END OF LINE DETAIL



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. Fourth Edition.

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.

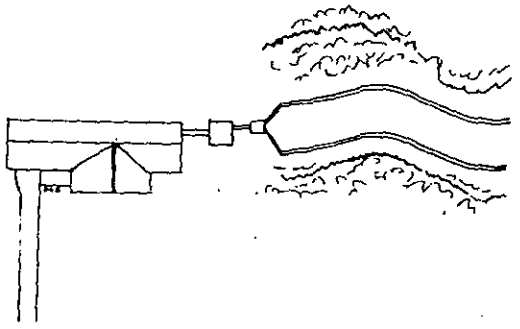
This conventional layout requires 2700 sq. ft. of area on the lot and equal space for repair for a total of 5400 sq. ft. of suitable and usable area. To calculate the T & J Panel system size, the above calculations must be made with an additional fourth step as described in 10NCAC 10A .1956 (3)(a)(ii)(B)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

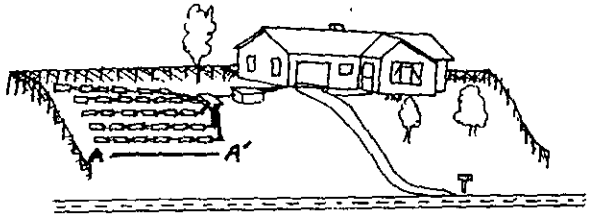
A Panel System requires only a 1200 sq. ft area on the lot for the system and equal area for repair. with the Panel System the installation and repair can go into the same space as the initial area required by a conventional gravel trench system.

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

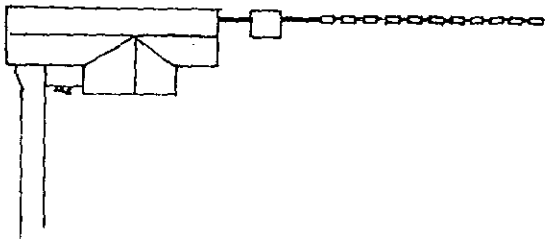


WRONG

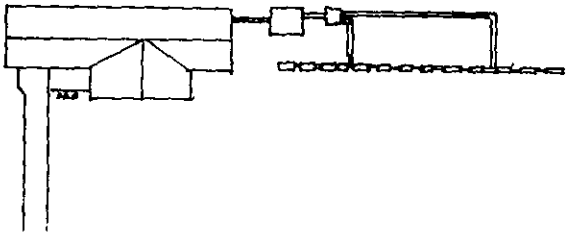
While both systems have the same lineal footage of trench the lower diagram is not a desireable design. The effluent must pass through the area A-A' which can cause a strain on that area and even a failure because of hydraulic overloading.

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 ( )

Character & Porosity of Soil clay loam over clay

Percolation Rate 0.4 gal/ft²/day

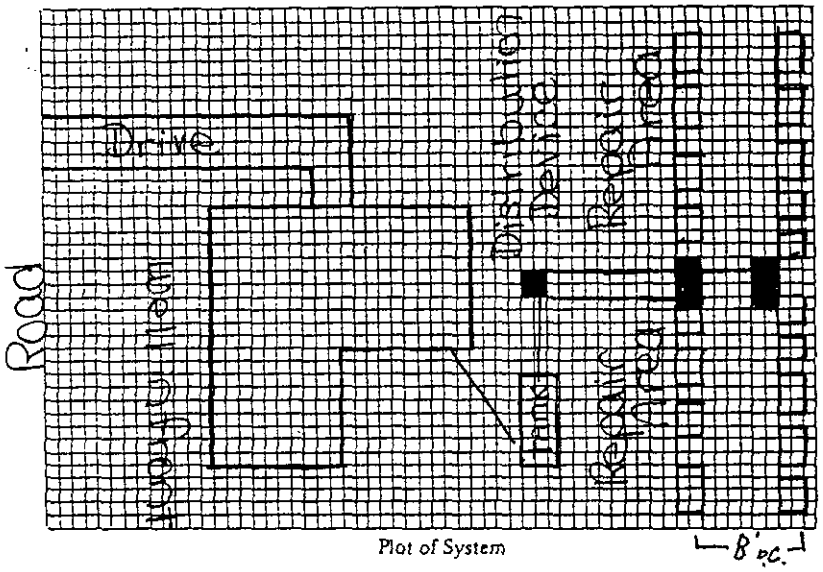
Topography 6% slope

Depth to Water Table > 60"

Rock or other impervious formations none

Lot Area _____

_____ 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 Stone

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. _____

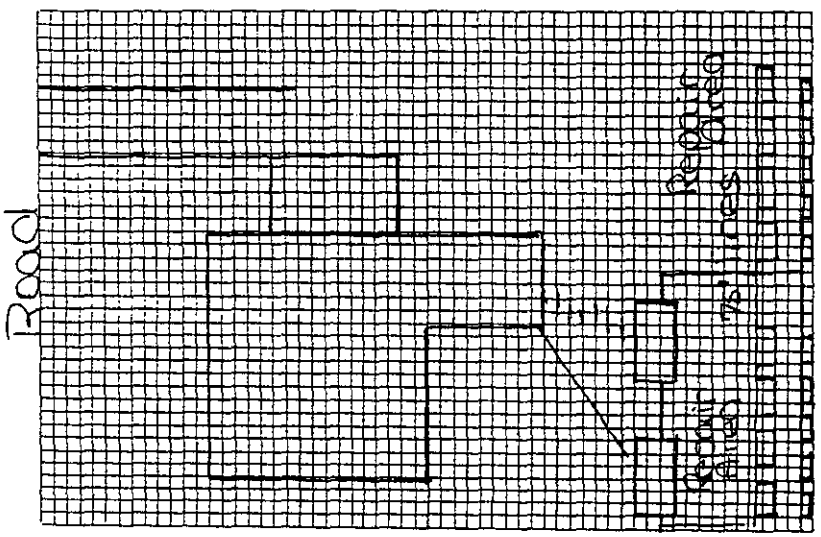
SUBDIVISION NAME _____ LOT NO. _____ SECTION OR BLOCK NO. _____

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

No. Bedrooms 3 No. Bathrooms 2½
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 gdo slope
Depth to Water Table >10ft"
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 2 (15') lines of T & J
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

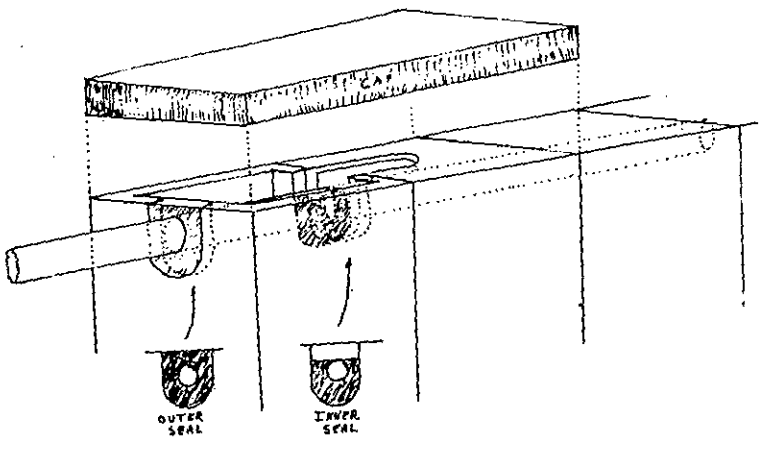
The T & J Panel System can be installed as either gravity or a low pressure distribution system. When designing a pressure system the principles of low pressure distribution are as described in the LPP manual. There is further discussion on pressure systems in the installer section of this manual. One 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 to as near to original structure as possible. A light dusting of lime on the side walls will help the system to continue the brake down of solids.

Final Inspection

The following list of points are things that an inspector should look for when 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

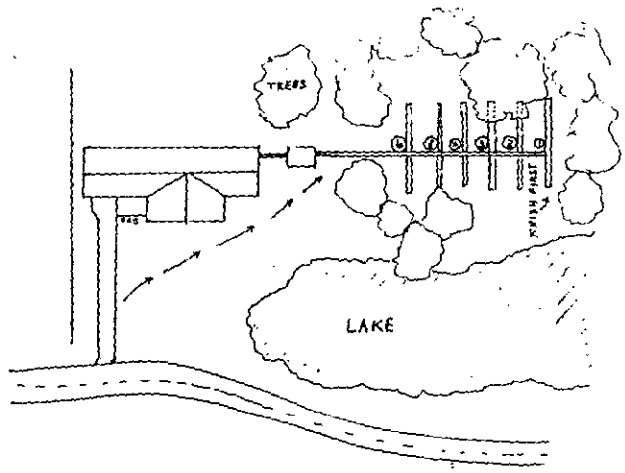
Generally, on level open land, a Panel System can be installed in about the same time as a conventional system; however, traditionally, Panel Systems have been installed where space and topography have restricted use of a conventional system. For this reason Panel System installations have required more 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.

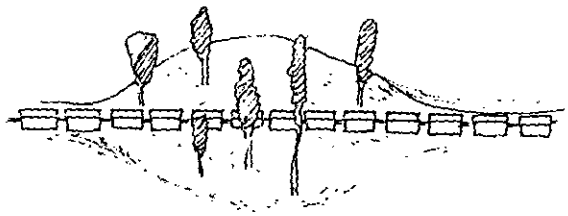
Installation Tips

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

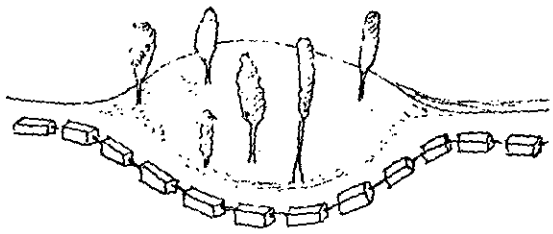


Above is an example of a multiple line installation. As you can see the installation should begin with the line marked 1 and proceed to 2, 3, then 4. This procedure will greatly ease material handling and backfilling. (Note sections of the drainlines should be left uncovered to allow for inspection of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

_____

_____

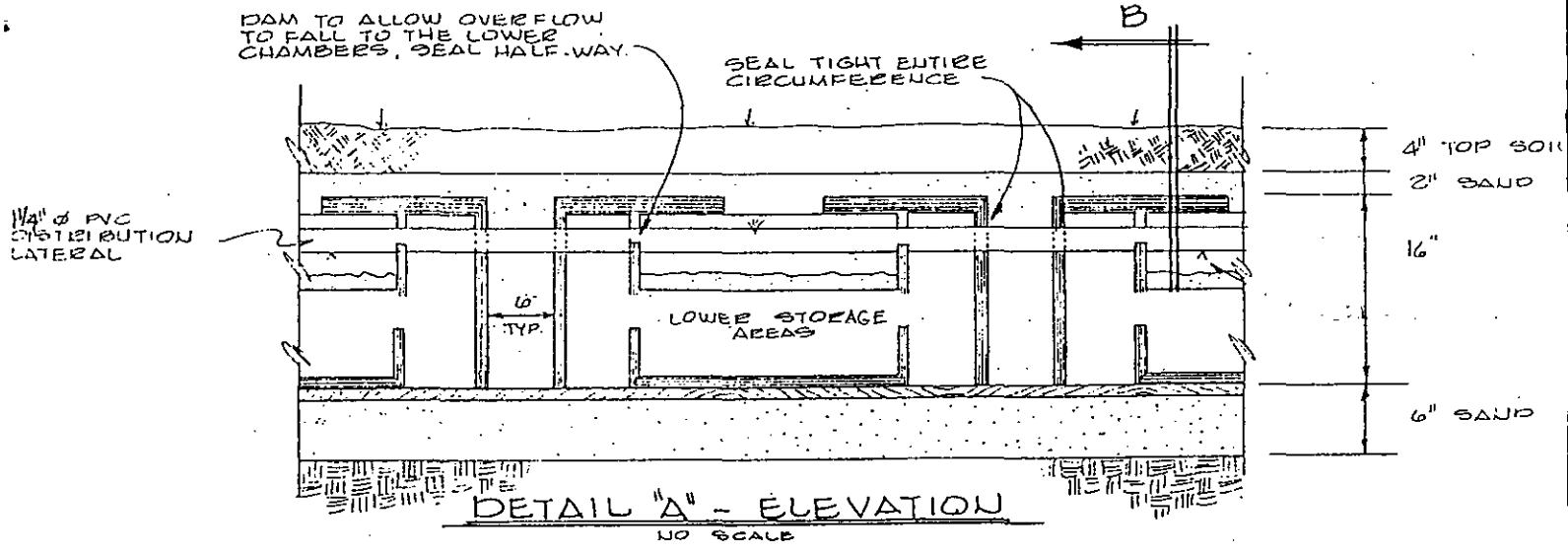
_____	T & J Panels _____ Inch (caps N/C)	_____
_____	2" Pipe	_____
_____	1 1/4" Pipe	_____
_____	Fittings for Pipe	_____
_____	Tar Seal Rope (3' per Panel)	_____
_____	Bag Partical Sand (100 lbs per 8 Panels)	_____
_____	Pallets (Returnable)	_____
_____	Screened Creek Sand (FM 2.3 to 3.0)	_____
_____	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 is applicable to the pressure Panel System. The system should be used with two to four feet of head. In many respects a LP Panel is similar to a LPP with the holes discharging into the panels.

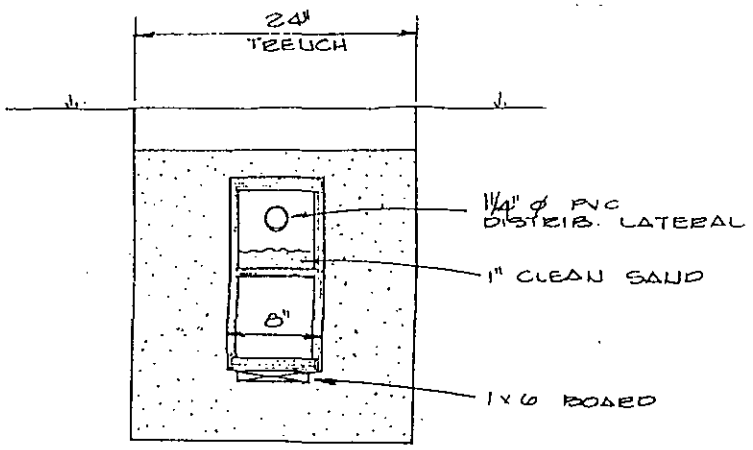
The dosing cycle for the Panel System is designed to pump enough effluent to fill the top chambers of all the panels in the system. The top chamber of a 16 inch panel holds 3.6 gallons. when the system has 34 panels and all the holes are the same size, then you would multiply 34 X 3.6 to get 122 gallon 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 in the system the the pump cycle is set by the 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 constructed as shown in the drawing as to allow for service and repairs.

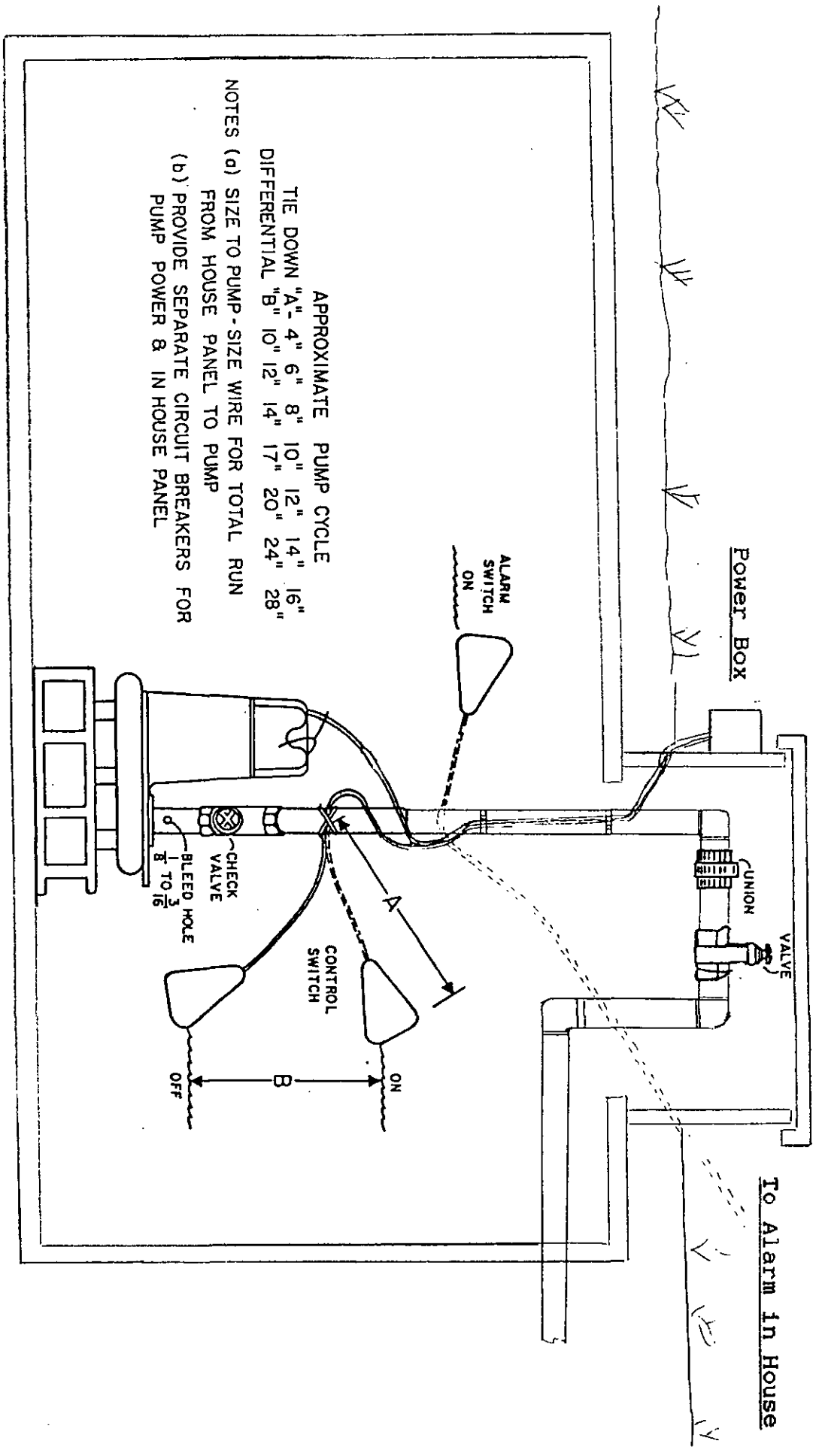


DETAIL "A" - ELEVATION

NO SCALE



DETAIL "B" - SECTION



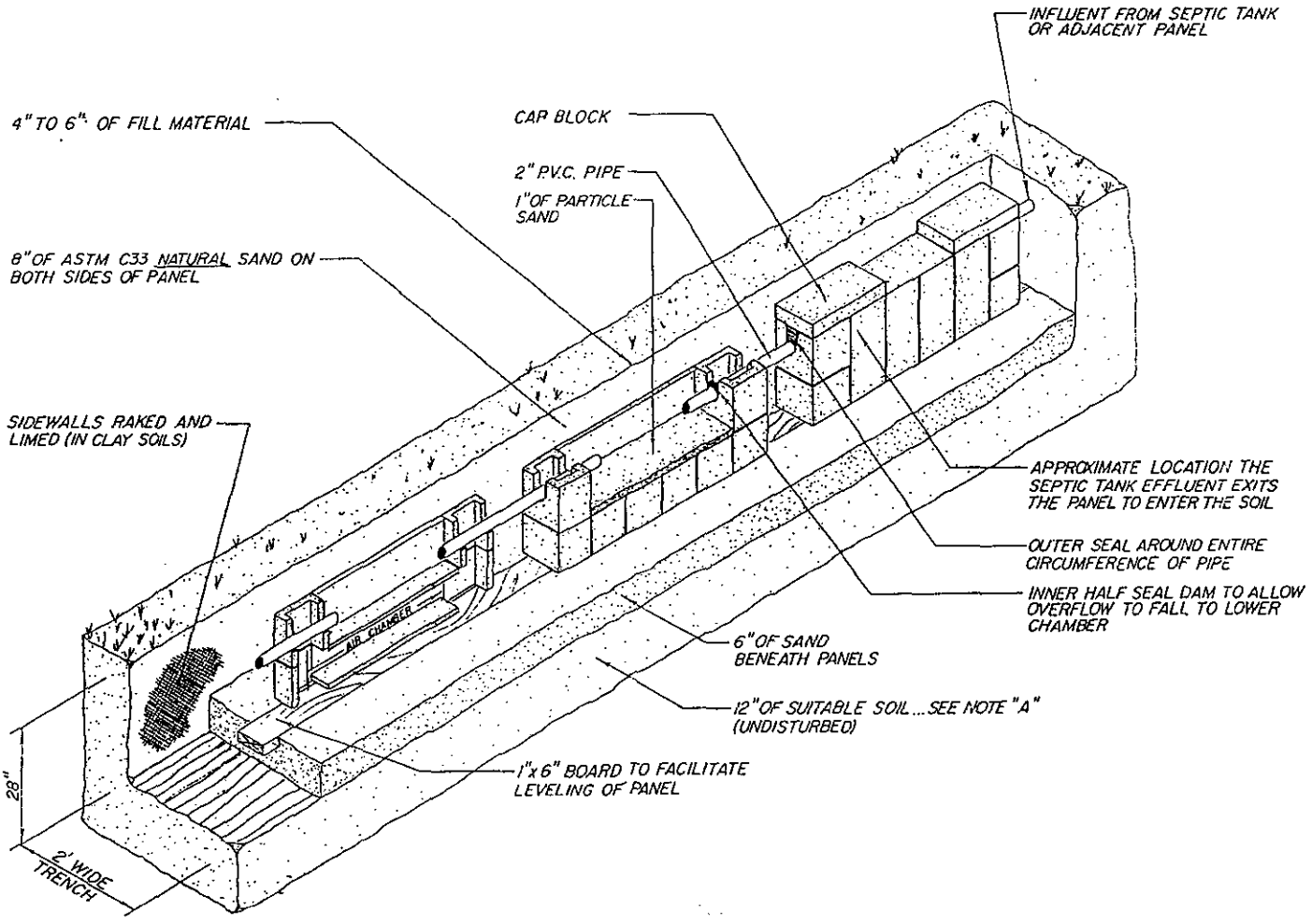
APPROXIMATE PUMP CYCLE

TIE DOWN "A"	4"	6"	8"	10"	12"	14"	16"
DIFFERENTIAL "B"	10"	12"	14"	17"	20"	24"	28"

NOTES (a) SIZE TO PUMP - SIZE WIRE FOR TOTAL RUN FROM HOUSE PANEL TO PUMP

(b) PROVIDE SEPARATE CIRCUIT BREAKERS FOR PUMP POWER & IN HOUSE PANEL

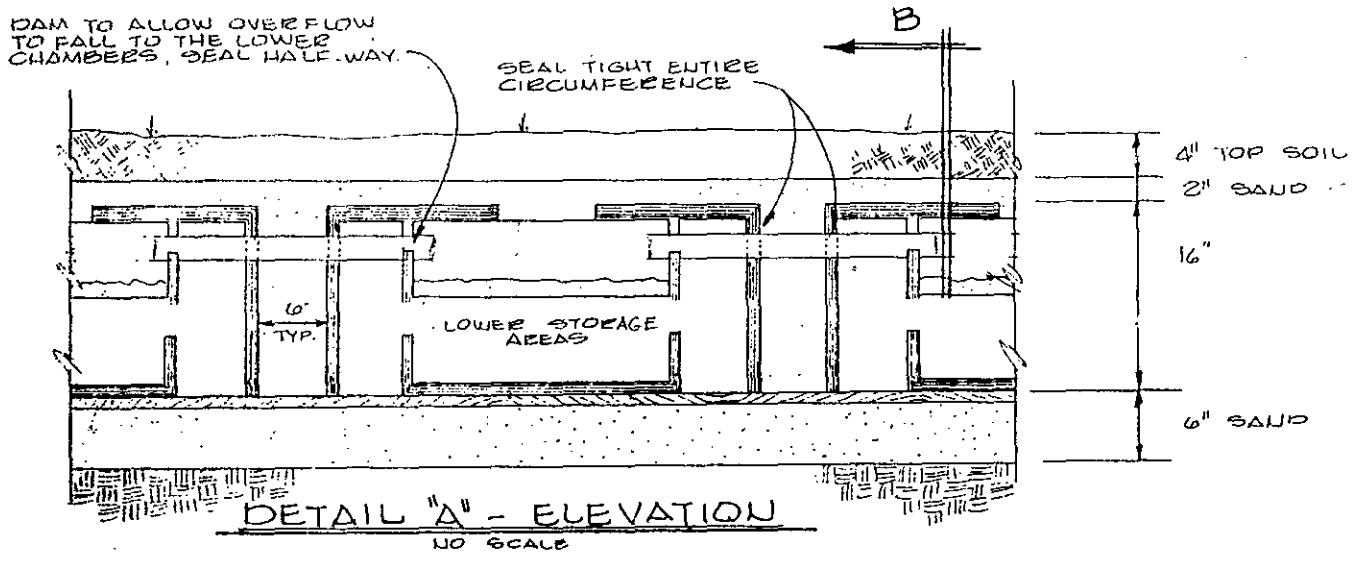
Isometric Drawing of a Segment of 16" T & J Panel System Drainfield



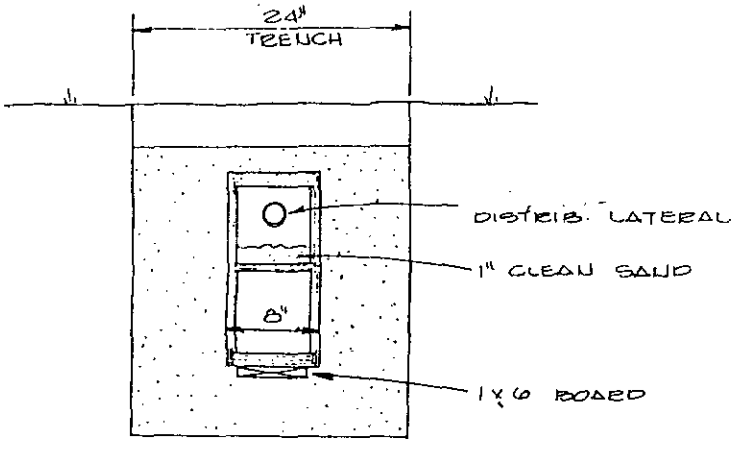
THE T. & J. PANEL
WASTE WATER TREATMENT SYSTEM

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

APPLICATION FOR SOIL INVESTIGATION

$150

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

(OFFICE USE ONLY)

FILE: 7082 A

TC: 10-21-56

☒ PC ☐ REPT

JOB LOCATION

① ADDRESS: 7710 ELLENCROFT LANE

② SUBDIVISION: ELLENCROFT ③ LOT: 6 ④ BLOCK: 1

⑤ PARCEL REFERENCE: MAP BOOK NO.: 23 PAGE NO.: 193 PARCEL NO.: _____

⑥ DEED REFERENCE: BOOK NO.: _____ PAGE NO.: _____

OWNER

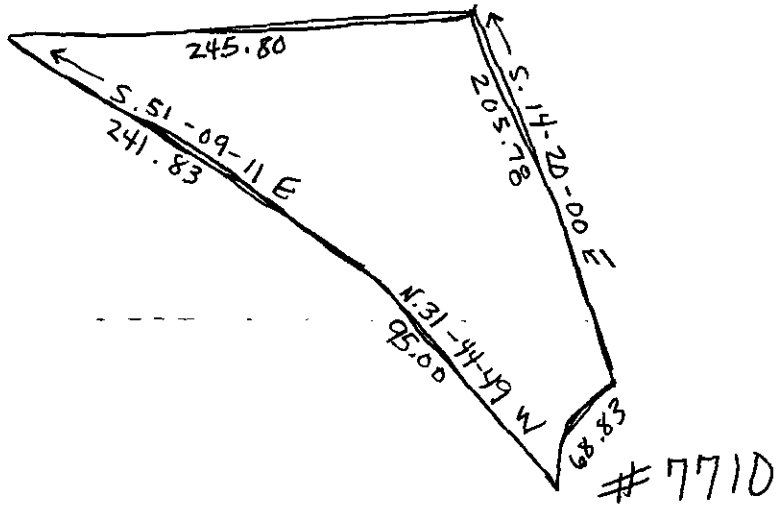
⑦ NAME: FIRST AMERICAN SAVINGS BANK, F.S.B.
(FIRST) (MIDDLE) (LAST)

⑧ MAILING ADDRESS: 4411 West Market Street

⑨ CITY: Greensboro ⑩ STATE: NC ⑪ ZIP: 27407

⑫ PHONE: (WORK) (919) 852-8410 (HOME) MR. WILLIAM C. DANIEL, Division Vice Pr

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: First American Savings Bank FSB by W. Daniel S.V.P.

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

Date: 9-27-90

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