1/23/79

Date Received MECK. COUNTY DEPARTMENT OF
RECEIVED
JAN 22 1979
ENVIRONMENTAL HEALTH

PO 227-071 of APT No. 15013

T. C. No. [redacted]

2

Map Date

MECKLENBURG COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH

APPLICATION FOR SOIL INVESTIGATION

send copy to: Jeff Rodgers, 717 Margate Avenue, Kannapolis, N.C. 28081

1) NAME OF OWNER Little (LAST) Robert (FIRST) Ted (MIDDLE)

2) ADDRESS OF OWNER Rt 1 Box 415 Harrisburg N.C. 28075

3) PHONE NO Home 455-2400 Office

4) LOCATION OF PROPERTY Mallard Cock Road (STREET OR COUNTY ROAD)

5) SUBDIVISION LOT NO BLOCK NO

MAP BOOK NO PAGE NO

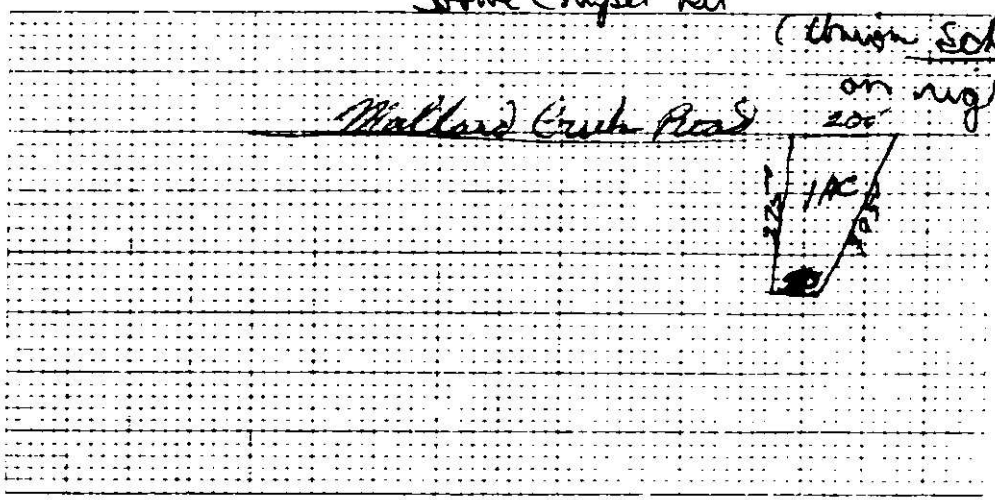
6) DEED REFERENCE DEED BOOK 4040 PAGE NO 238

Application is hereby made to the Mecklenburg County Department of Environmental Health for the conduct of a soil investigation and an on site inspection of the lot hereinabove described for the purpose of determining if the lot is suitable for the installation of an individual septic tank wastewater treatment system with subsurface soil absorption effluent discharge

BOUGHT FROM:
near Cabarrus line
Stowe Chapel Rd

(Union School Rd on right

Mallard Creek Road 200'



7) ACCURATELY DIAGRAM & DIMENSION LOT

Robert Ted Little
OWNER

EHD-5-76

Environmental Health Department's Copy

NORTH CAROLINA
DEPARTMENT OF HUMAN RESOURCES
DIVISION OF HEALTH SERVICES
RALEIGH, NORTH CAROLINA

APPENDIX H
SITE EVALUATION

S.I.R. No. 15013

(Ground Absorption Sewage Disposal)

OWNER: Robert T. Little
ADDRESS: R.1, Box 415
COUNTY: Harrisburg, N.C. 28075
LOCATION OF SITE: Mallard Creek Road

DATE REQUESTED:
PLAT NO.: 00 c29-091-07
LOT SIZE: 44,325

FACTORS	AREA 1	AREA 2	AREA 3	AREA 4
1. SLOPE (%)	(S) PS U 2-10%	(S) PS U 2-10%	S PS (U) rowdoi slopes	S PS U
2. SOIL TEXTURE (12-36 in.) (Sandy, loamy, clayey, Note 2:1, Clay)	S PS (U) 2-1 clay	S PS (U) 2-1 clay	S PS (U) 2-1 clay	S PS U
3. SOIL STRUCTURE (12-36 in.) (Clayey Soils)	S PS (U) Massive	S PS (U) Massive	S PS (U) Massive	S PS U
4. SOIL DEPTH (In.)	S PS (U) L 48"	S L 48" PS U	S Depth PS (U) Variable	S PS U
5. RESTRICTIVE HORIZONS (In.) (Impervious Strata, Rock)	(S) None PS U	(S) None PS U	(S) None PS U	S PS U
6. SOIL DRAINAGE/GROUNDWATER (External & Internal)	(S) To 1 To ground water PS U	S Seasonal PS Perched (U) water Table	S Eroded PS Areas (U) Channel water	S PS U
7. SOIL PERMEABILITY (Percolation Rate)	S Slow PS (U) V. Slow	S PS (U) V. Slow	S Slow PS (U) V. Slow	S PS U
8. OTHER (Specify)	S PS U	S PS U	S PS U	S PS U
9. SITE CLASSIFICATION	unsuitable	unsuitable	unsuitable	
SOIL SERIES	Monacan/	Iredell	complex slopes	

S - Suitable PS - Provisionally Suitable U - Unsuitable

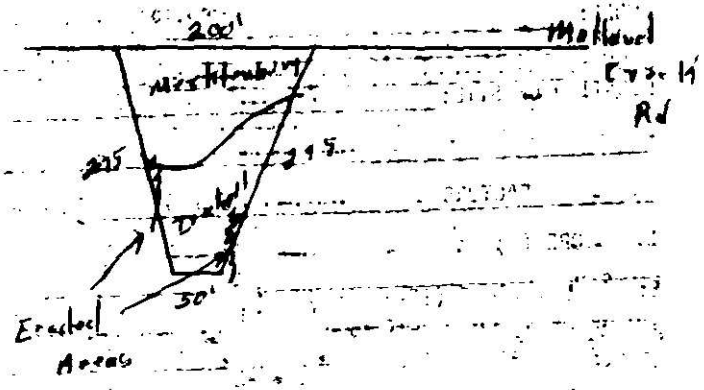
* See Diagram on Back (Include: Soil areas, property lines, roads, streams, gullies, wet areas, fill areas, wells, water bodies, slope patterns)

Recommendations/Comments: area 1

Described By: William R. Wallace

Title: Soil Scientist Date: 2-2-79

dhs form 2601 (1/79)
Sanitation


200'
Mallard
Creek
Rd
225'
215'
Ditch
50'
Eroded
Areas

MECKLENBURG COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
1200 BLYTHE BOULEVARD
CHARLOTTE, NORTH CAROLINA 28203

SITE INVESTIGATION REPORT
INDIVIDUAL SEPTIC TANK SYSTEM
WITH SUBSURFACE,
SOIL ABSORPTION,
EFFLUENT DISCHARGE

SIR.NO. 15013
T.C.NO. Mo 029-071-07
MAP DATE
DATE February 5, 1979

NAME OF OWNER Little, Robert Ted.

ADDRESS OF OWNER Route 1, Box 415, Harrisburg, N.C. 28075

LOCATION OF LOT Mallard Creek Road

At your request and pursuant to Section .1900 of the North Carolina Administrative Code, Title 10, Department of Human Resources, Chapter 10, Health Services, Subchapter 10A, a site evaluation has been made for an on premises ground absorption sewage disposal system on the property designated above and the following conditions were found:

Soil Structure Massive
Soil Permeability Unsuitable
Site Classification Unsuitable

Sites classified as Unsuitable are not acceptable for soil absorption of sewage effluent. However, if engineering, geologic, soil, and environmental studies indicate that a suitable septic tank system or a suitable alternate system can be expected to function satisfactorily, such sites may be re-classified as Provisionally Suitable. (Section 10 of the North Carolina Administrative Code 10 A,.1910)

If you desire to file for permission to install an "alternate or modified" system, you should present this office with your proposals in the form of plans and specifications. These would be reviewed and if it is found that the system may reasonably be expected to function satisfactorily, approval may be given on the execution by you of a "Septic Tank Agreement Form" available in this office.

John R. Adkisson, Environmentalist

EHD 999 (1/79)

SEE INSTRUCTIONS ON BACK

Date Received 8-4-84 ICAR(S) Application No. 15013

T. C. No. PO 029-091-07

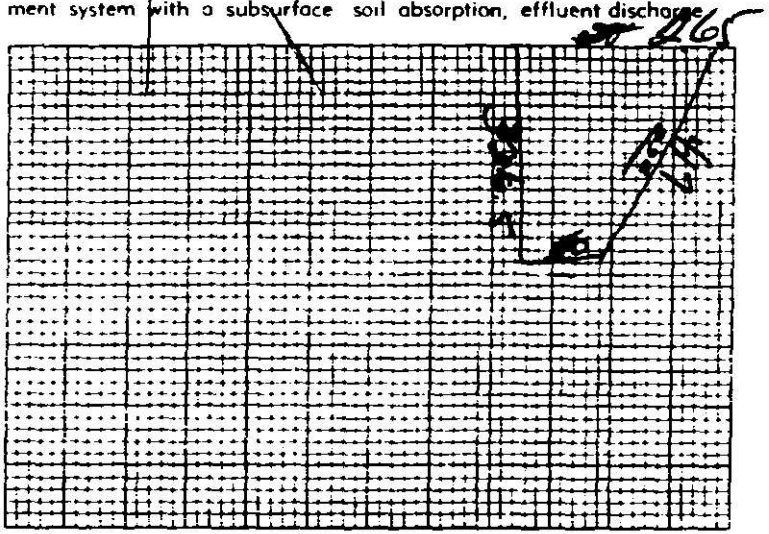
Map Date L

MECKLENBURG COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH

Application for an
Installation, Construction, Alteration, and/or Repair Permit
(Individual Septic Tank System with Subsurface, Soil Absorption, Effluent Discharge)

The owner of that property described hereinafter hereby applies to the Mecklenburg County Department of Environmental Health for a permit to:

1) ✓ Install or Construct 2) _ Alter or Repair an individual septic tank wastewater treatment system with a subsurface soil absorption, effluent discharge



3) PLOT PLAN (ACCURATELY DIMENSIONED)

Mobile Home ___Yes X No
Residence ✓ Yes ___ No
4) No of Bedrooms 3 H.M. Pressley
5) Business Use — Max No Employees ___
6 Washing Machine ✓ Yes ___ No
7) Garbage Disposal ✓ Yes ___ No
8 Dishwasher ___ Yes X No
9) Water Supply
A. Individual Well Yes
B. Governmental System ___
C. Community System
1 Well source ___
2 Governmental source ___
10) Sewage System
House located within 200 feet of public sewer ___ Yes X No
House located within 200 feet of community sewer ___ Yes X No
11 FHA Case No ___
12 VA Case No. ___

13) NAME OF OWNER Robert Ted Little H.M. Pressley
(LAST) (FIRST)

14) ADDRESS OF OWNER Rt 1 Box 275 Harrisburg NC 28075
Rt 1 Box 276 Harrisburg NC

15) PHONE NO. Home 782-4078 Office ___

16) LOCATION OF SYSTEM 15331 Union School Rd. Mallard Creek Road
(STREET OR COUNTY ROAD)

17) SUBDIVISION ___ Lot No. 15331 Block No. ___

Map Book No. 4040 Page No. 238

18) DEED REFERENCE — DEED BOOK 4040 AT PAGE 238

19) HAS A SOIL INVESTIGATION BEEN RUN? ___ YES ___ NO DATE RUN ___

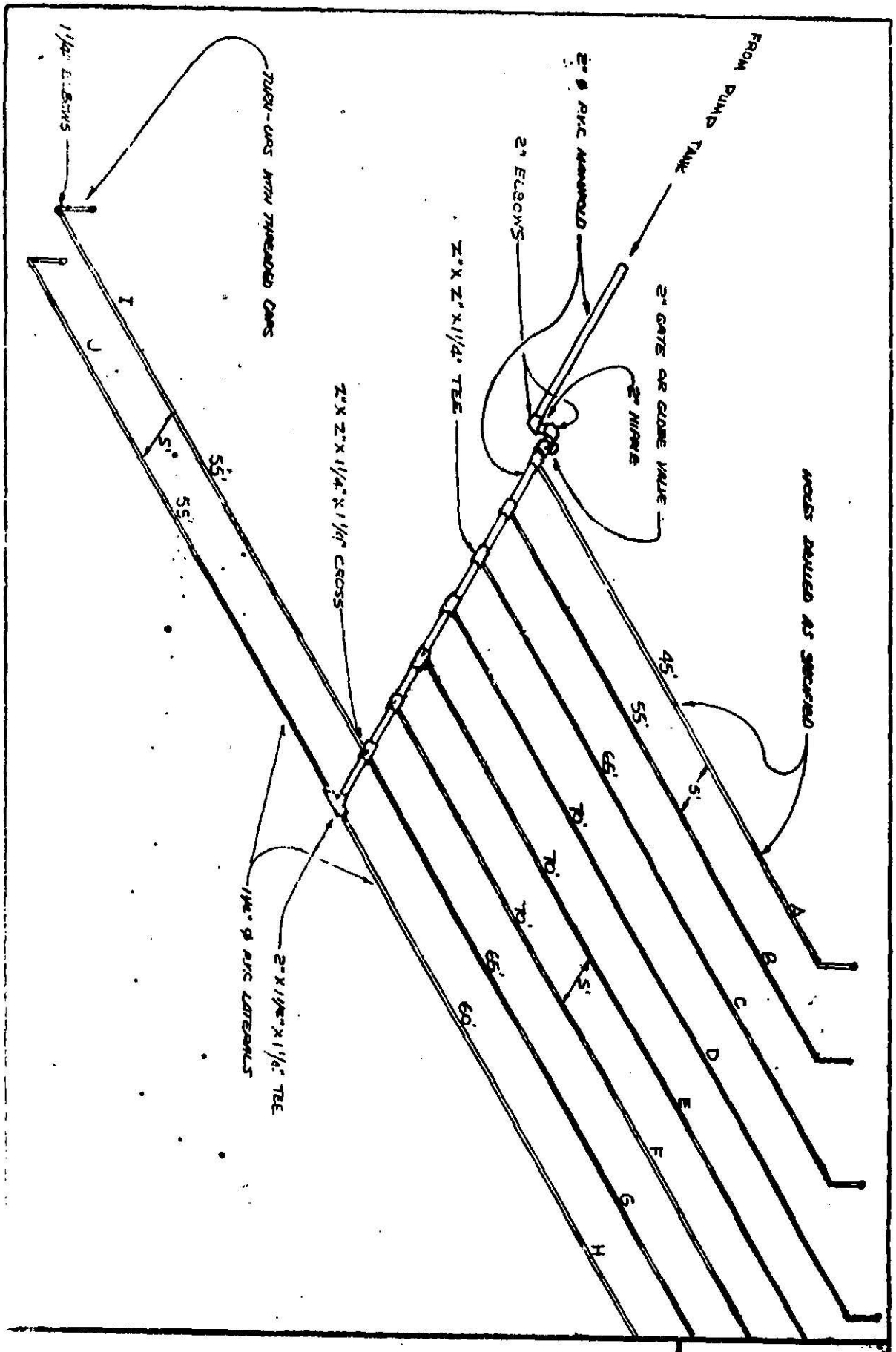
20) PTR NUMBER (See Instructions) ___

The undersigned person hereby agrees that he has read the foregoing application and that the contents of same are true. It is understood that any permit applied for herein shall be void and of no effect if any of the above facts are not true.

8-14-84
DATE OF APPLICATION

Robert Ted Little
H.M. Pressley
OWNER

BHD-5-76

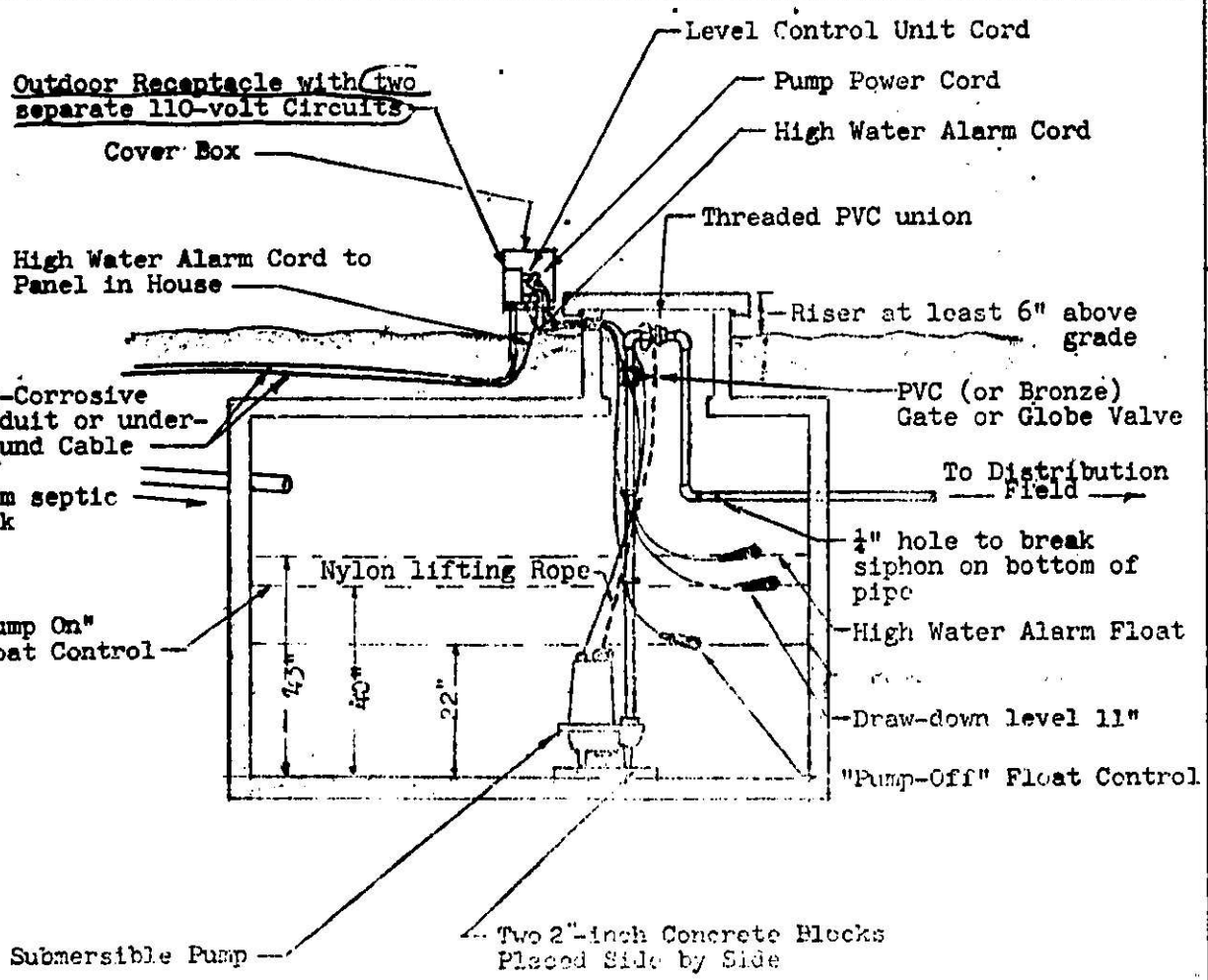


SCHEMATIC OF LOW PRESSURE WASTEWATER DISTRIBUTION SYSTEM

PREPARED BY DAVID A. ROBERTS, P. E. OF LANDIS, N. C.

No Scale

NORTH CAROLINA REGISTERED SEAL 6271 ENGINEER DAVID ARTHUR ROBERTS



NORTH CAROLINA REGISTERED SEAL 6271 DAVID ROBERTS CIVIL ENGINEER

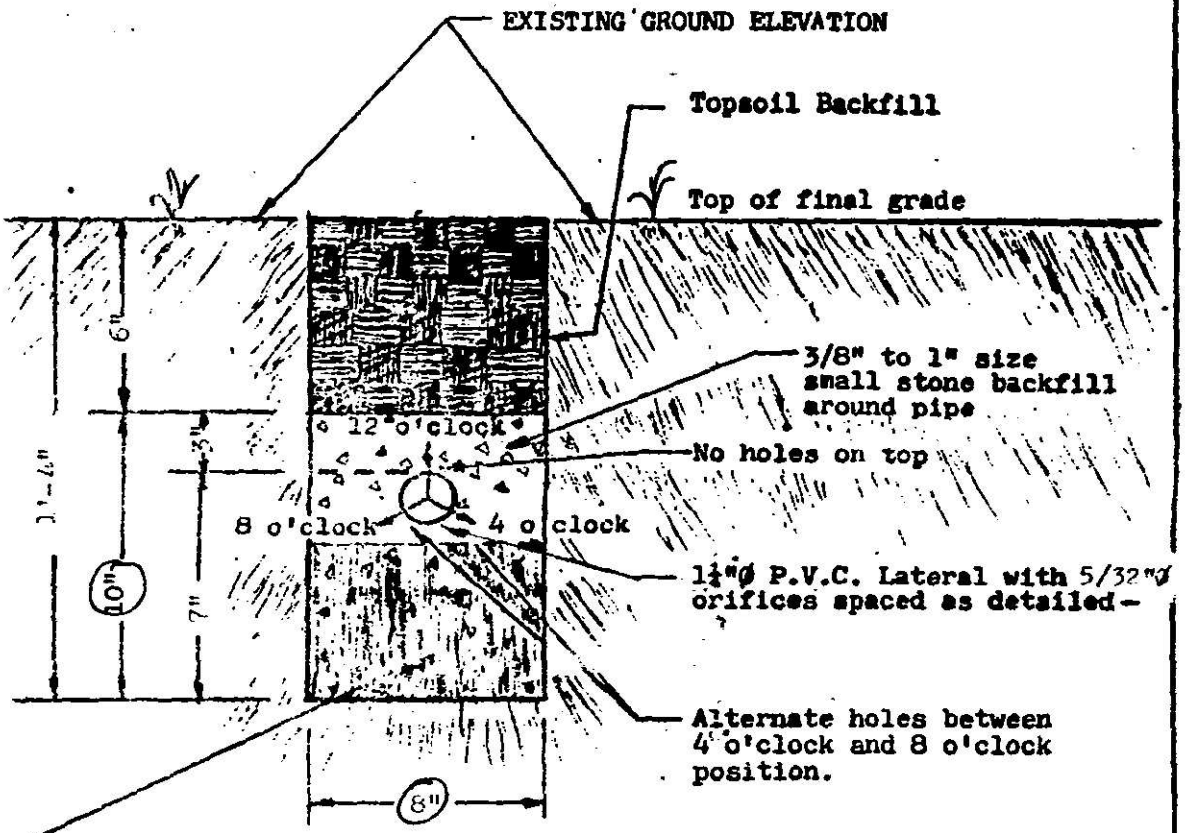
PUMPING CHAMBER DETAILS FOR RECOMMENDED WASTEWATER DISPOSAL SYSTEM

PREPARED BY DAVID A. ROBERTS, P. E. OF LANDIS, N. C.

No Scale

(A & B)

NOTE: Install lime powder to trench sidewalls and bottom...Scarify lightly...before installing stone.



This Detail Is For The Standard Low Pressure Piping System

TYPICAL SECTION THROUGH LATERAL TRENCH OF RECOMMENDED LOW PRESSURE WASTEWATER DISPOSAL SYSTEM

Prepared by David A. Roberts, P. E. of Landis, N. C.

No Scale

(C)

NORTH CAROLINA REGISTERED SEAL 6271 ENGINEER DAVID ARTHUR ROBERTS

DESIGN SPECIFICATIONS FOR LOW PRESSURE PIPE SYSTEM FOR PROPOSED TWO-BEDROOM HOME ON 1.2 ACRE TRACT, LOCATED AT 15331 UNION SCHOOL ROAD, MECKLENBURG COUNTY, N.C., H. M. PRESSLEY, OWNER

Daily Wasteflow	240 gpd
Septic Tank Size:	1,500 gallons
Pumping Tank Size:	1,000 gallons
Effluent Loading Rate:	0.0787 gpd/ft.^{2}
Total Absorption Area:	3,050 gt.^{2}
Total Linear Feet and Diameter of Laterals:	610 feet of 1¼" diameter
Total Length and Diameter of Supply Manifold:	60 feet of 2" diameter
Number and Length of Laterals:	3@70', 2@65', 1@60', 3@55', 1@45'
Manifold Placement:	one end and middle
Hole Size:	5/32 inch
Total number of Holes:	126 orifices
Total Flow Through System:	(see orifice data sheet) = 61.2 gpm Anti-siphon Hole = 2 gpm TOTAL 63.2 gpm Say 63 gpm
Elevation Head:	8.75 feet
Pressure Head:	2.25 feet
Friction Head:	5.60 feet
Total Head:	16.6 feet
Storage Volume in Pipes:	Manifold = 11.6, Laterals = 54.9 Total = 66.5 gal., Say 67
Dosing Volume:	275 gallons, 18" in 1,000 gal. tank
Check Valve Needed:	No
Pump requirements:	63 gpm at 16.6 feet of head. Use Myers ½ hp WHR5 series pump or Gould ½ hp WPO5 series pump

ORIFICE DATA SHEET

LETTER IDENTIFICATION OF LATERAL	LENGTH OF LATERAL	PRESSURE HEAD	SIZE OF ORIFICE	FLOW PER ORIFICE	DISTANCE FROM MANIFOLD PIPE TO FIRST ORIFICE	ORIFICE SPACING	DISTANCE FROM LAST ORIFICE TO END OF LATERAL	NUMBER OF ORIFICES PER LINE	FLOW PER LATERAL
A	45'	4.00'	5/32"Ø	0.58	5'-0"	7'-6" o.c	2'-6"	6	3.48
B	55'	3.75'	5/32"Ø	0.56	2'-0"	6'-1½" o.c	4'-0"	9	5.04
C	65'	3.50'	5/32"Ø	0.54	3'-10½"	5'-11" o.c.	1'-11½"	11	5.94
D	70'	3.25'	5/32"Ø	0.52	1'-10"	5'-4½" o.c.	3'-8"	13	6.76
E	70'	3.00'	5/32"Ø	0.50	3'-4"	5'-0" o.c	1'-8"	14	7.00
F	70'	2.75'	5/32"Ø	0.48	1'-6½"	4'-8" o.c	3'-1½"	15	7.20
G	65'	2.50'	5/32"Ø	0.46	2'-10½"	4'-4" o.c	1'-5½"	15	6.90
H	60'	2.25'	5/32"Ø	0.43	1'-3"	3'-9" o.c	2'-6"	16	6.88
I	55'	2.50'	5/32"Ø	0.46	1'-4"	4'-3" o.c	2'-8"	13	5.98
J	55'	2.25'	5/32"Ø	0.43	2'-9"	3'-11" o.c	1'-4"	14	6.02
10 lines Total	610' Total							126 Total	61.20 Total

TOTAL OF 126 ORIFICES - 5/32"Ø SIZE EACH

TOTAL OF 61.2 GALLONS PER MINUTE WASTEFLOW FROM SYSTEM

RECOMMENDED LATERALS, SIZE, LENGTH & ORIFICE SPACING
FOR PROPOSED TWO-BEDROOM HOME ON 1.2 ACRE TRACT
LOCATED AT 15331 UNION SCHOOL ROAD
NEAR CABARRUS COUNTY LINE
MECKLENBURG COUNTY, NORTH CAROLIN
H. M. PRESSLEY, OWNER

PREPARED BY DAVID A. ROBERTS, P.E. OF LANDIS, N.C.

SEP 7 1984

NORTH CAROLINA PROFESSIONAL SEAL 6271 ENGINEER DAVID ARTHUR ROBERTS

COPY

PRESENTED FOR REGISTRATION
SEP 18 3 16 PM '84
CHARLES E. JACKSON
REGISTER OF DEEDS
MECKLENBURG N.C.

FILE NO. 15013

STATE OF NORTH CAROLINA

COUNTY OF MECKLENBURG

ACKNOWLEDGEMENT OF REQUEST BY OWNER FOR RECLASSIFICATION FROM "UNSUITABLE" TO "PROVISIONALLY SUITABLE" UNDER 10 NCAC 10A .1948(c)

The undersigned, Donald H. M. Pressly & Leona B. Pressly,

owner of property located at 15331 Union School Rd

("the site") and described in an instrument recorded in Book 4902 at Page 290, Mecklenburg Public Registry, hereby acknowledges that he applied to the Mecklenburg County Department of Environmental Health ("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 10 NCAC 10A .1934 et seq; that the Department originally classified the site as "unsuitable" pursuant to the standards set forth in the regulations; that the undersigned requested pursuant to 10 NCAC 10A .1948(c) 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 can reasonably be expected to function satisfactorily and thus that the findings specified in 10 NCAC 10A .1948(c)(1), (2), and (3) can be made; 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 his responsibility 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 agrees for himself, his heirs and assigns that he shall indemnify and hold harmless the Department, 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.

The undersigned further agrees for his heirs and assigns that, in the event any septic tank system installed under authority of the aforesaid permit fails to perform adequately in any respect, he will take whatever measures are required to correct same; or if such is impossible he will discontinue use of said system immediately.

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 names 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.

This 18 day of September, 19 84.

Donald H. M. Pressly Jr. (SEAL)

Leona B. Pressley (SEAL)

STATE OF NORTH CAROLINA
COUNTY OF ~~MECKLENBURG~~ CABARRUS

I, Ethel B Little, a Notary Public for said County and State, do hereby certify that Wm Pressley Sr & Leona B. Pressley personally appeared before me this date and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and notarial seal, this 18th day of Sept, 1984.

Ethel B Little
Notary Public

My Commission Expires: 7-15-86

STATE OF NORTH CAROLINA
COUNTY OF MECKLENBURG

I, _____, a Notary Public for said County and State, do hereby certify that _____ personally came before me this day and acknowledged that he is _____ of _____, 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 _____, sealed with its corporate seal and attested by _____.

WITNESS my hand and notarial seal, this _____ day of _____, 1984.

_____
Notary Public

My Commission Expires: _____

Date Issued 9-25-84

Serial No. 7872

SIR No. 15013

T. C. No. PO 029-071-07

Map Date L, CRT

MECKLENBURG COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
IMPROVEMENT PERMIT

TO THE BUILDING INSPECTION DEPARTMENT

APPROVAL OF LOT FOR INSTALLATION OF AN INDIVIDUAL SEPTIC TANK WITH SUBSURFACE, SOIL ABSORPTION, EFFLUENT DISCHARGE

NAME OF OWNER Pressley, (LAST) H. (FIRST) M. (MIDDLE)

ADDRESS OF OWNER Route 3, Box 276, Harrisburg, NC ZIP 28075

LOCATION OF LOT 15331 Union School Road (STREET OR COUNTY ROAD)

SUBDIVISION _____ LOT NO. _____ BLOCK NO. _____

MAP BOOK NO. _____ PAGE NO. _____

The above specified lot is approved by the Mecklenburg County Department of Environmental Health for the installation of an individual septic tank system with subsurface, soil absorption, effluent discharge based on the soil investigation, on an on-site inspection of the said lot; and upon the information supplied in the "Application for an Installation, Construction, Alteration, and/or Repair Permit", number 15013. This approval is subject to the following terms and conditions:

1. That the nitrification field be installed, constructed, altered and/or repaired in the same area where the soil investigation was run.
2. That an "Installation, Construction, Alteration, and/or Repair Permit" be issued and in full force and effect when the system is installed, constructed, altered, and/or repaired and that the system be installed in accordance with same.

This approval may be revoked and the building inspection department requested to revoke any building permit(s) which have been issued to authorize construction on the said lot if at any time it is determined that any information contained in the "Application for an Installation, Construction, Alteration, and/or Repair Permit" is not correct or is untrue or that the septic-tank system is not being installed, constructed, altered and/or repaired in accordance with a valid Installation, Construction, Alteration, and/or Repair Permit.

*** AGREEMENT FORM ON FILE ***

Lisa Erickson
Environmentalist

Bill D. Hartsfield Jr
Environmental Health Director, or Authorized Section Head

EHD-5-76

Site reclassified Provisionally Suitable pursuant to 10 NCAC 10A .1948(c) and Departmental policy regarding alternate septic tank system installation.

Environmental Health Supervisor's Copy