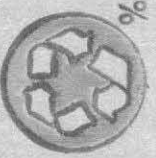


669 STATION ROAD

...LLA PUBLIC HEALTH  
FACT SHEETS

**Oxford**<sup>®</sup>  
NO. 152 1/3 BGR  
ESSELTE





No. 94-6

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST



Application for Disposal Works Construction Permit

Application is hereby made for a Permit to Construct ( ) or Repair (X) an Individual Sewage Disposal System at:

669 STATION ROAD Location - Address or Lot No. 664 MAIN ST. AMHERST, MA 01002
SPRING ASSOCIATES - PIONEER SENIOR CENTER Address
PAUL LUSSIER Installer Address

Type of Building Dwelling (X) No. of Bedrooms 3 Expansion Attic (No) Garbage Grinder (No)
Other - Type of Building No. of persons Showers ( ) - Cafeteria ( )
Other fixtures

Design Flow 110 gallons per person per day. Total daily flow 330 gallons.
Septic Tank (X) Liquid capacity 1500 gallons Length 126" Width 58" Diameter Depth 55"
Disposal Trench (X) No. 3 Width 36" Total Length 270" Total leaching area 1656 sq. ft. SIDEWALL
Seepage Pit No. Diameter Depth below inlet Total leaching area sq. ft.

Other Distribution box (Yes) Dosing tank (No)
Percolation Test Results Performed by R. SCOTT, P.E. WITNESS: D. ZARZINSKY, BOEH Date 5-4-94
Test Pit No. 1 30 minutes per inch Depth of Test Pit 150" Depth to ground water 102"
Test Pit No. 2 minutes per inch Depth of Test Pit Depth to ground water

Description of Soil To 12" TOPSOIL; To 30" SUBSOIL; To 150" DEPTH COMPACTED GRAVEL TILL w/ FINES.

Nature of Repairs or Alterations - Answer when applicable INSTALL NEW SEPTIC TANK, PUMP CHAMBER & LEACH TRENCHES.

Agreement: The undersigned agrees to install the aforescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Environmental Code - The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by the board of health.

Application Approved By David Fitzgerald for AHD Dept Signed Jean Murray 6-7-94
Date 6/7/94

Application Disapproved for the following reasons:
Permit No. 94-6 Issued Date

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST

Certificate of Compliance

Paul Zussis 10/26/94

THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed ( ) or Repaired (X) by PAUL LUSSIER Installer at 669 Station Road has been installed in accordance with the provisions of TITLE 5 of The State Environmental Code as described in the application for Disposal Works Construction Permit No. 94-6 dated

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.

DATE Inspector Richard Scott, P.E.

CHECK OR FILL IN WHERE APPLICABLE

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No. 94-6

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town of Amherst



Application for Disposal Works Construction Permit

Application is hereby made for a Permit to Construct ( ) or Repair (X) an Individual Sewage Disposal System at:

669 Station Road, Spring Associates - Pump & Sewer Center, Paul Lussier, 669 Station Rd, Amherst, MA 01002

Type of Building: Dwelling (X), No. of Bedrooms: 3, Expansion Attic (No), Garbage Grinder (No), Other - Type of Building, No. of persons, Showers ( ), Cafeteria ( )

Design Flow: 110 gallons per person per day, Total daily flow: 330 gallons, Septic Tank: Liquid capacity 1500 gallons, Length 120, Width 50, Diameter, Depth 55, Disposal Trench: No. 3, Width 36, Total Length 270, Total leaching area 1656 sq. ft. SIDEWALK

Percolation Test Results: Performed by Scott P. Winicki D. Rozinski BOSH Date 5-4-94, Test Pit No. 1: 30 minutes per inch, Depth of Test Pit 150, Depth to ground water 102"

Description of Soil: T3.12 T3.13 T3.30 Silty CL TO 150' IN COMPOSITE GRAVEL TILL w/ F. JETS

Nature of Repairs or Alterations - Answer when applicable: Install New Septic Tank, Pump Chamber & LEACH TRENCHES.

Agreement: The undersigned agrees to install the aforescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Environmental Code - The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by the board of health.

Signed Jean Murray, Application Approved By David Ferguson for AHD Dept, Date 6-7-94, Date 6/9/94

Application Disapproved for the following reasons: Permit No. 94-6, Issued Date

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town of Amherst

Certificate of Compliance

Paul Lussier, 10/26/94

THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed ( ) or Repaired (X) by Paul Lussier, Installer

at 669 Station Road, has been installed in accordance with the provisions of TITLE 5 of The State Environmental Code as described in the application for Disposal Works Construction Permit No. 94-6 dated

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.

DATE, Inspector Richard Scott, PE

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town of Amherst

No. 94-6

64 #0212, FEE 160

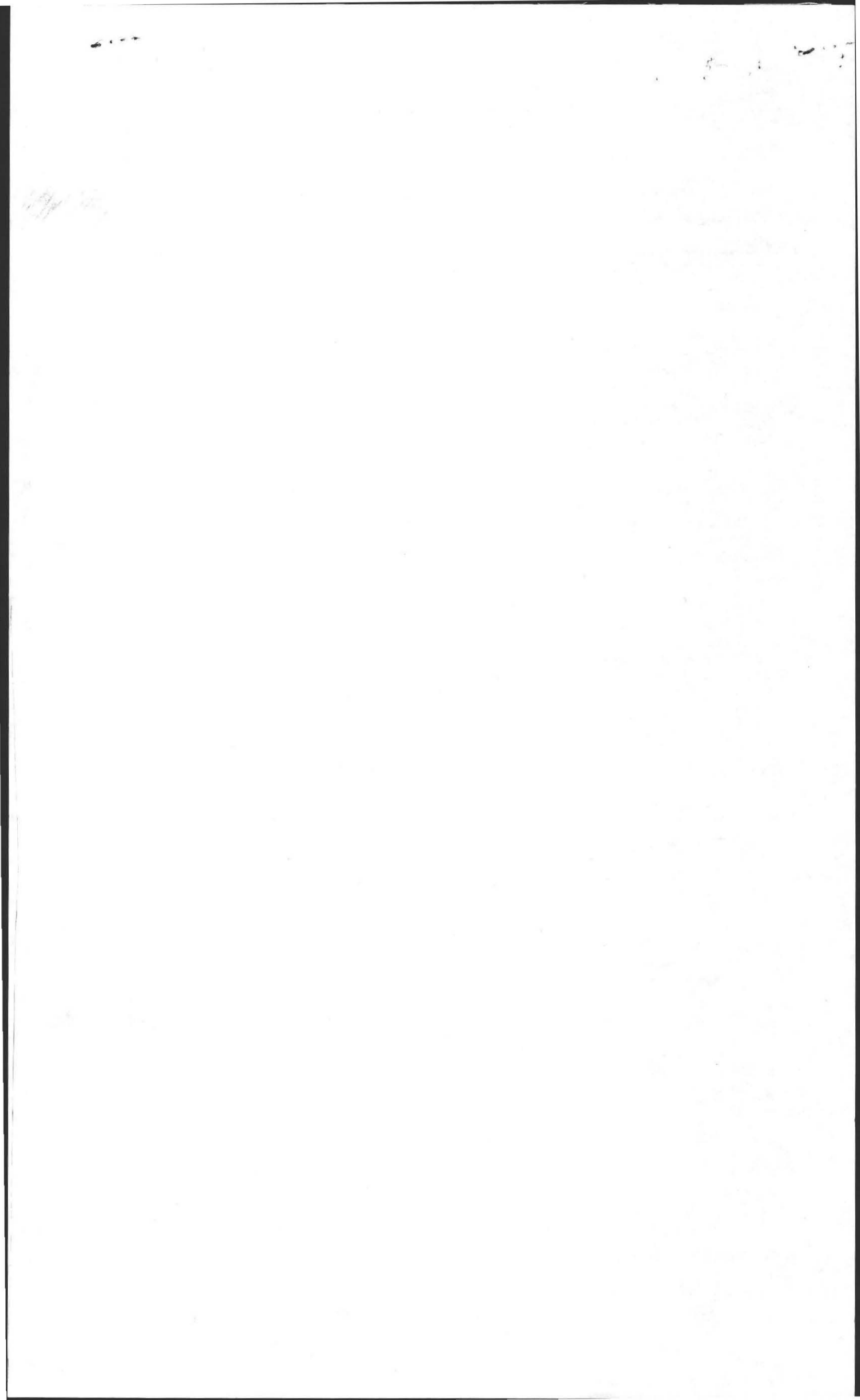
Disposal Works Construction Permit

Permission is hereby granted Spring Assoc. (Jean Murray) to Construct ( ) or Repair (X) an Individual Sewage Disposal System at No. 669 Station Road

as shown on the application for Disposal Works Construction Permit No. 94-6 Dated 6/9/94

DATE 6/9/94, Board of Health David Ferguson for AHD Dept.

CHECK OR FILL IN WHERE APPLICABLE



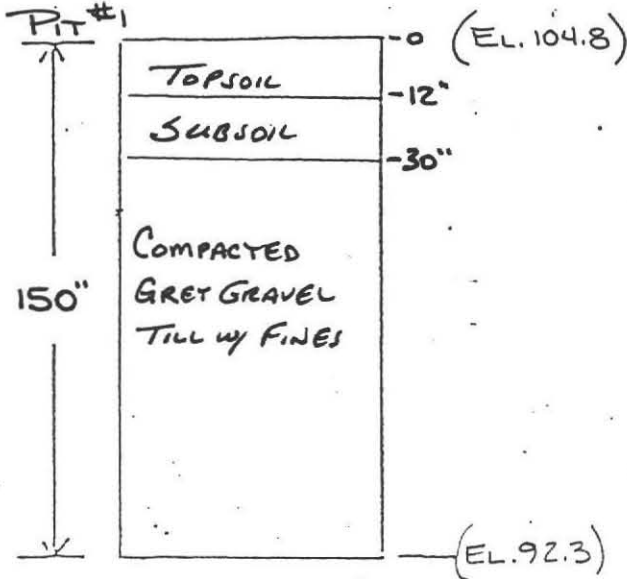
OBSERVATION PITS

REQUESTED BY: PIONEER SENIOR CENTER (JEAN MURRAY) 253-9726

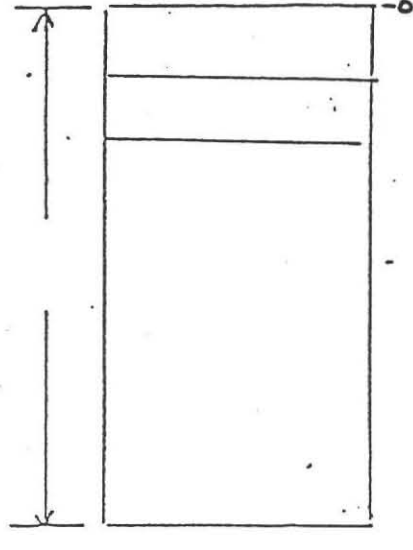
LOCATION: 669 STATION ROAD  
AMHERST, MA

MAILING ADDRESS: 664 MAIN ST. AMHERST, MA 01002

DATE: MAY 4, 1994 OBSERVER: R. SCOTT, P.E. WITNESSES: D. BAROZINSKI, BOFH



Groundwater 102" (EL. 96.3)  
Perc Rate \_\_\_\_\_



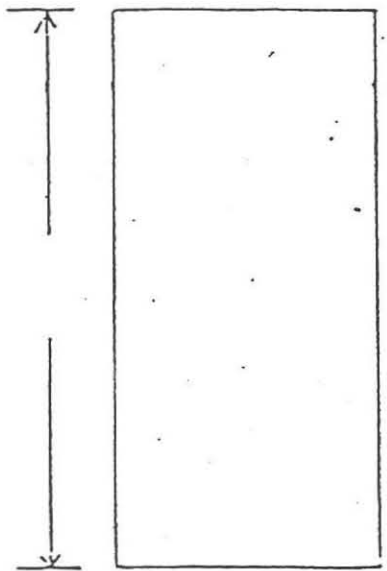
Groundwater \_\_\_\_\_  
Perc Rate \_\_\_\_\_

PERC BOTTOM DEPTH = 54"  
START SOAK @ 10:02  
12" @ 10:17  
11" @ 10:30  
10" @ 10:46  
9" @ 11:07

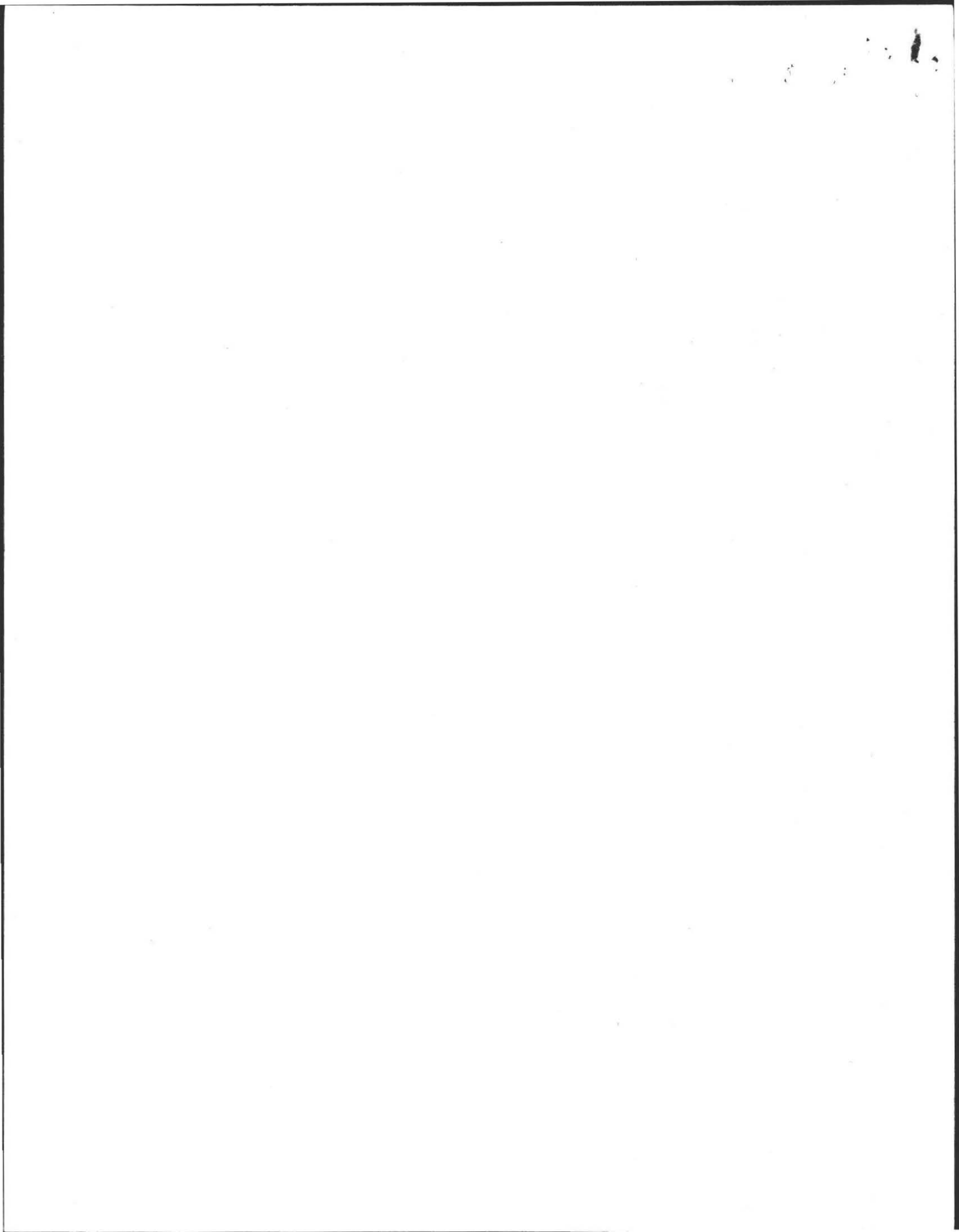
50 MIN. FOR 1ST 3 INCHES  
OKAY TO PROCEED DUE TO RECENT HEAVY RAINS

8" @ 11:32  
7" @ 12:02  
6" @ 12:35

88 MIN. PER 3 IN.  
PERC RATE = 29.3 MIN./IN.  
DESIGN RATE = 30 MIN./IN.  
(SIDEWALL AREA ONLY)



Groundwater \_\_\_\_\_  
Perc Rate \_\_\_\_\_





PERC TEST DATA SHEET

DATE 5/4/94 LOCATION 669 STATION Road LOT SIZE \_\_\_\_\_

OWNER Spring Assoc. ADDRESS 13 Webster Court TELE # 253-9726  
*Jean Murray*

P.E./RS Rick Scott FIRM Soma OBSERVED BY D. Zaminelli

BACK HOE OPERATOR Taylor Davis (Kerrie) TELE \_\_\_\_\_ BENCH MARK \_\_\_\_\_  
*Tidland*

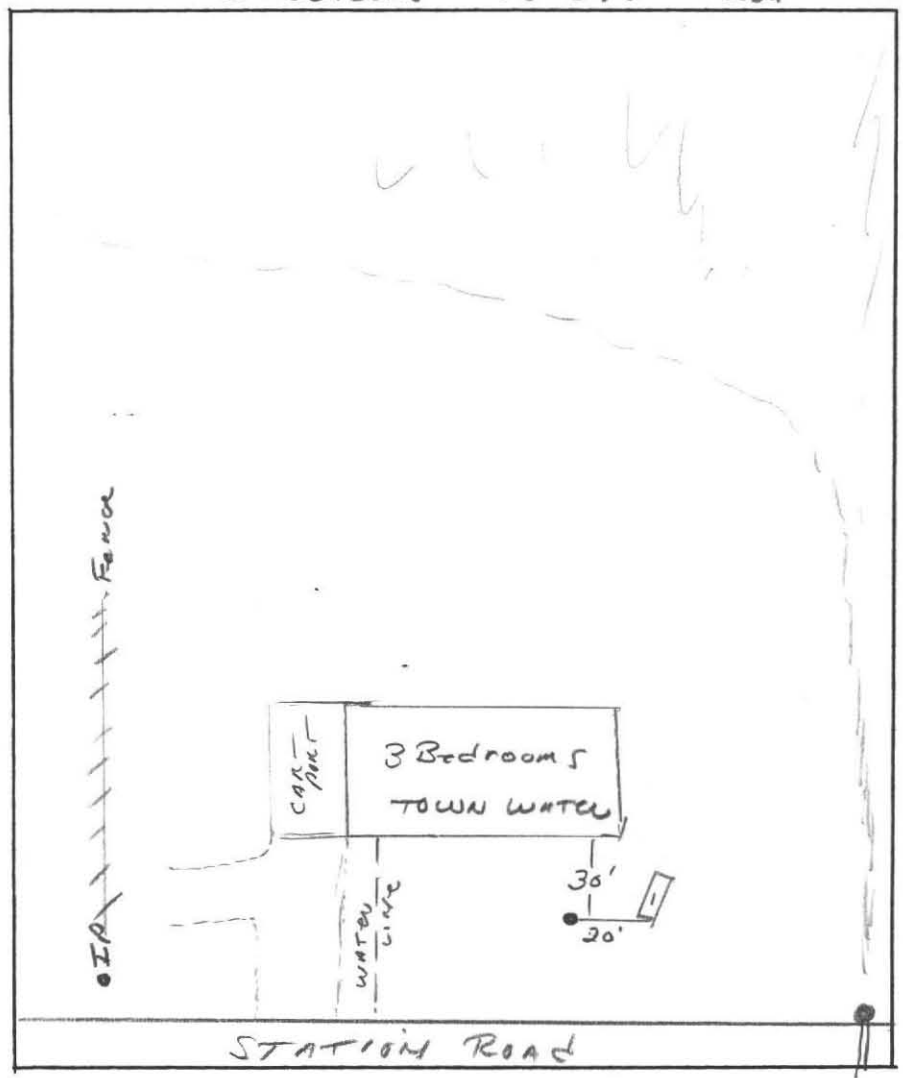
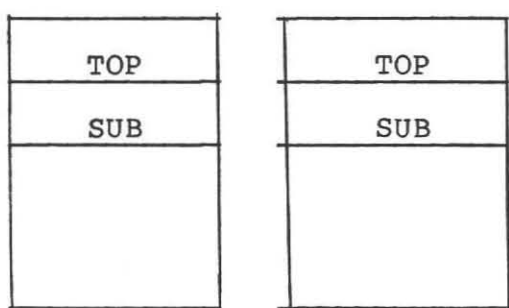
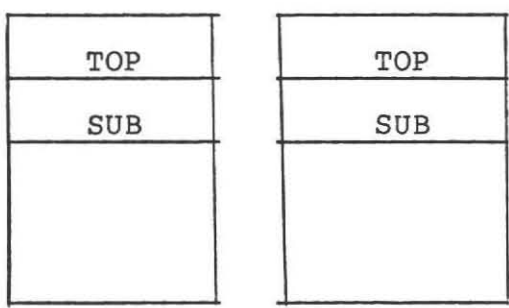
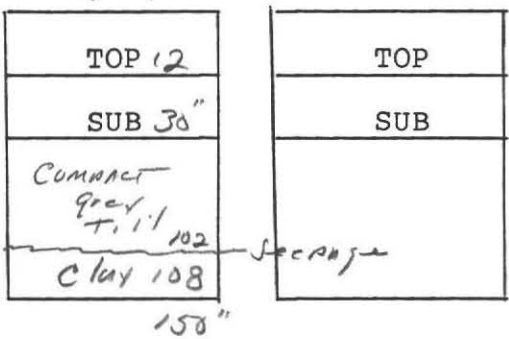
PERC DEPTH 54" PRE SOAK TIME 10:02 - 10:17 PERC DEPTH \_\_\_\_\_ PRE SOAK TIME \_\_\_\_\_

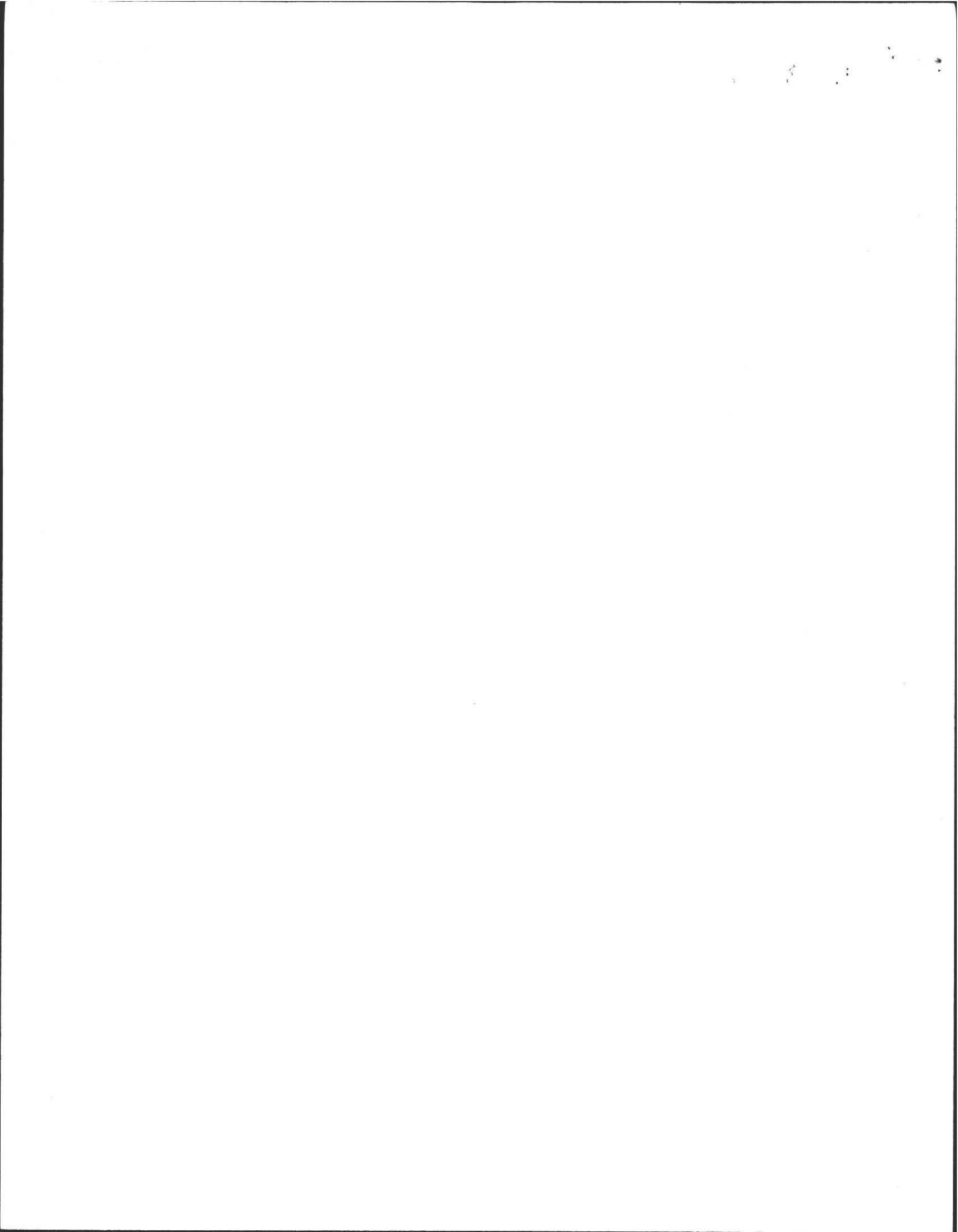
|      |              |            |          |              |       |       |
|------|--------------|------------|----------|--------------|-------|-------|
| TEST | <u>10:17</u> | <u>12"</u> | <u>8</u> | <u>11:32</u> | _____ | _____ |
|      | <u>10:30</u> | <u>11"</u> | <u>7</u> | <u>12:02</u> | _____ | _____ |
|      | <u>10:46</u> | <u>10"</u> | <u>6</u> | <u>12:36</u> | _____ | _____ |
|      | <u>11:07</u> | <u>9"</u>  | _____    | _____        | _____ | _____ |

RATE (30) RATE \_\_\_\_\_

# 1

3 Bedrooms No G/G Town Water





#669

Richard Scott, P.E.  
31 Shutesbury Road  
Pelham, MA 01002

Rec  
11/9/94

October 28, 1994

David Zarozinski  
Amherst Health Department  
Bangs Community Center  
Amherst MA 01002

Re: Septic System Repair at 669 Station Road  
Pioneer Senior Center

On Thursday October 27, I conducted an as-built inspection of this newly repaired septic system. The as-built dimensions are shown in "clouds" on the enclosed plan copy.

All system components are installed. In plan view the piping is shifted a small amount to preserve landscape trees. This small shift will not affect system performance and the field location remains over the test pits.

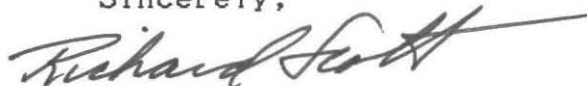
Elevations in the pump-fed leach trenches were spot checked at approximately twelve locations. The results are all within a tolerance of +/- .01 feet and all pipe pitches are in accordance with Title 5.

The switches and alarm were checked by manipulating the floats. They appear to be properly set to dose approximately fifty gallons of effluent to the distribution box during each pump cycle.

Work remaining to be done as of Thursday afternoon was to crush and bury the discontinued septic tank, provide new risers on the tank and pump chamber, then to backfill all system components. Once the remaining work is complete, my recommendation is that you approve the installation for use.

If you should have any further questions on this project please don't hesitate to call me.

Sincerely,



Richard Scott P.E.

cc: Jean Murray  
Paul Lussier

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NOTES

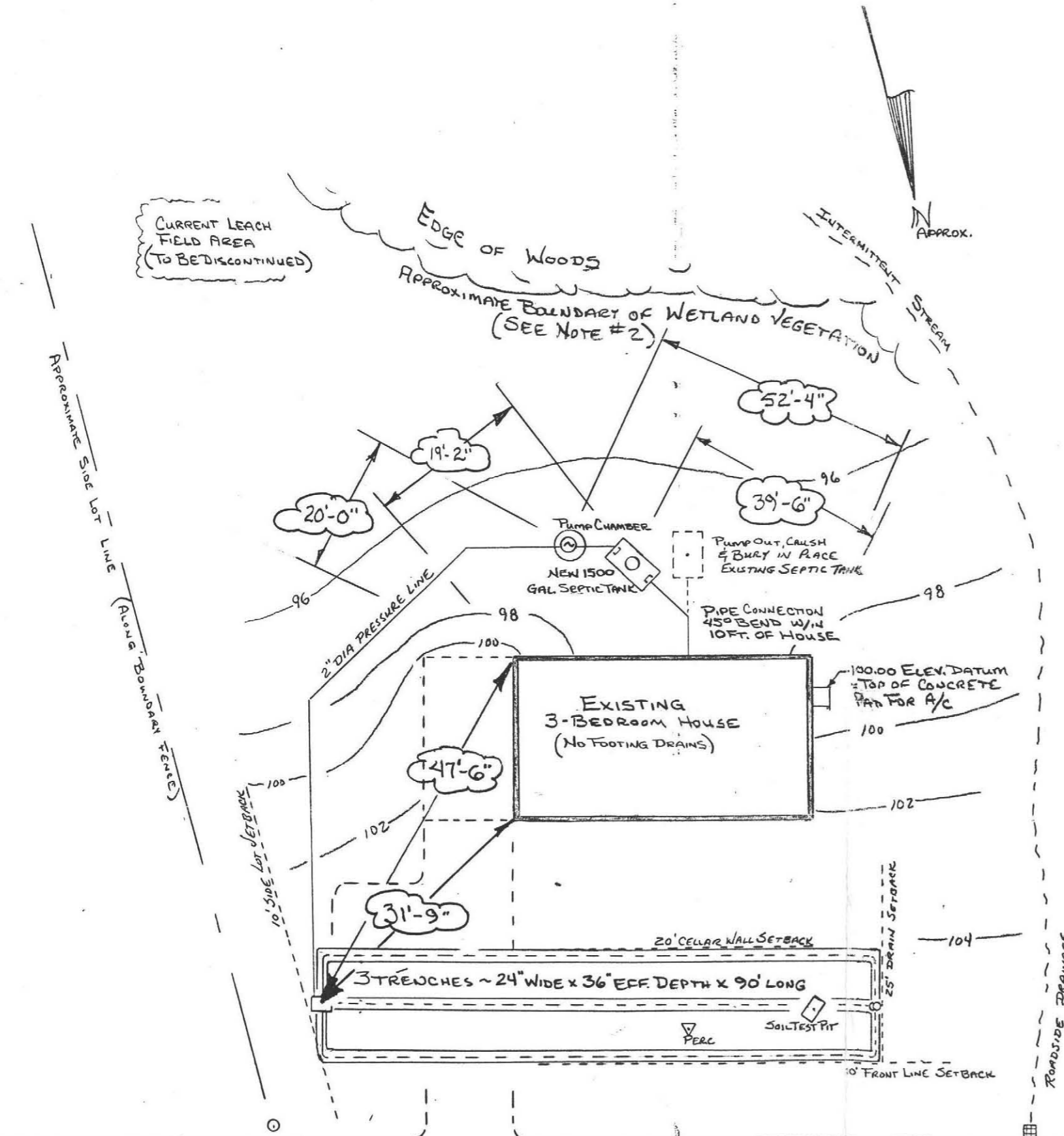
FINISH ELEVATION CONTOURS TO APPROXIMATE EXISTING  
 ALL "BACKYARD" CONSTRUCTION TO MAINTAINED AS CLOSE  
 AS POSSIBLE TO BACK OF HOUSE. BACKYARD CONSTRUCTION  
 TO BE COMPLETED IN ONE DAY DURING DRY WEATHER ONLY

EFFLUENT PUMP SYSTEM TO BE GOULD MODEL 3886 OR  
 EQUAL IN FRP OR CONCRETE CHAMBER W/ FLOAT  
 CONTROLS & ALARM WIRED TO MAIN FLOOR OF HOUSE.

PERFORATED PIPE IN LEACH TRENCHES TO BE SDR 40 PVC  
 OR SDR 35

CAREFULLY LOCATE INCOMING MUNICIPAL WATER SUPPLY LINE  
 BEFORE ANY "FRONT YARD" EXCAVATION. AS A MINIMUM,  
 PRESSURE-TEST THIS INCOMING LINE. PREFERRED, SUGGESTED  
 METHOD IS TO RELOCATE THIS LINE TO WEST SIDE  
 OF LEACH TRENCH AREA.

DIMENSIONS IN "CLOUDS"  
 ARE PER 10-27-94 AS-BUILT  
 INSPECTION RMS 10-28-94



|                              |              |                                    |
|------------------------------|--------------|------------------------------------|
| SEPTIC SYSTEM REPAIR DESIGN  |              |                                    |
| AT 669 STATION ROAD, AMHERST |              |                                    |
| SCALE: 1" = 20'              | APPROVED BY: | DRAWN BY RMS                       |
| DATE: 6-4-94                 |              | REVISED 6-7-94 ADDED WETLANDS NOTE |
| FOR PIONEER SENIOR SERVICES  |              |                                    |
|                              |              | DRAWING NUMBER                     |

STATION ROAD

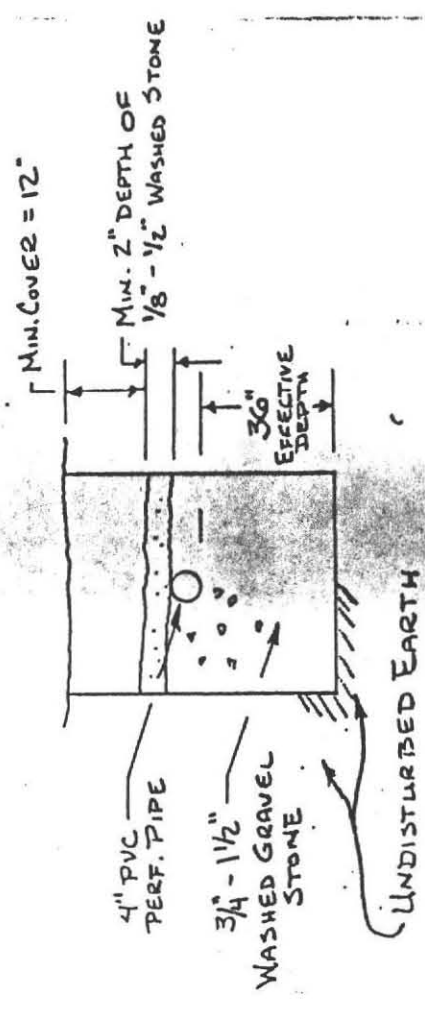
Rec 11/17/94 DZ



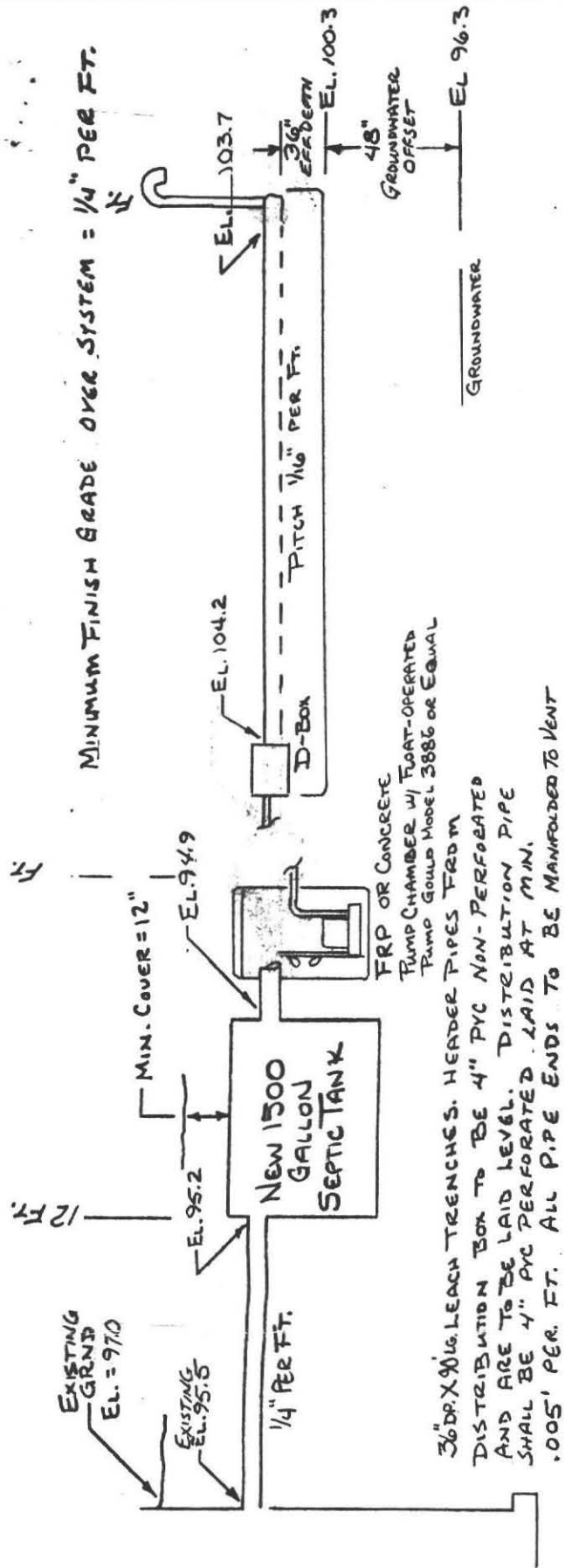
SYSTEM DESIGN CALCULATIONS

3 BEDROOM X 110 GAL. PER BR PER DAY = 330 GPD  
 USE GAL. PER DAY DESIGN FLOW.  
 MINIMUM EFFECTIVE SEPTIC TANK VOLUME =  $1.5 \times 330 = 495$  GAL.  
 SPECIFIED TANK VOLUME FOR THIS INSTALLATION = 1500 GAL.  
 PERCOLATION RATE = 30 MINUTES PER INCH →  
 DESIGN LOADING = 0.33 GPD PER SQ. FT. OF EFFECTIVE  
 SIDEWALL & NO BOTTOM LEACHING AREA ALLOWED DUE TO RATE > 20 MIN./IN.  
 SPECIFIED LEACH TRENCHES ARE 20 FT. WIDE X 3.0 FT.  
 EFFECTIVE DEPTH. ALLOWABLE LOADING PER FT. OF  
 TRENCH =  $2 \times 1.0 \times 30 \times .33 = 2.00$  GPD/FT.  
 REQUIRED TRENCH LENGTH =  $330 \div 2.00 = 165$  FEET  
 (WITHOUT CONSIDERATION OF TRENCH ENDS)

SPECIFIED TRENCHES = 3 @ 90 FT. LONG  
 ALLOWABLE VOLUME =  $270 \times 2.00 + 6 \times 2.0 \times 30 \times 0.33 = 552$  GPD  
 (WITH CONSIDERATION OF TRENCH ENDS)



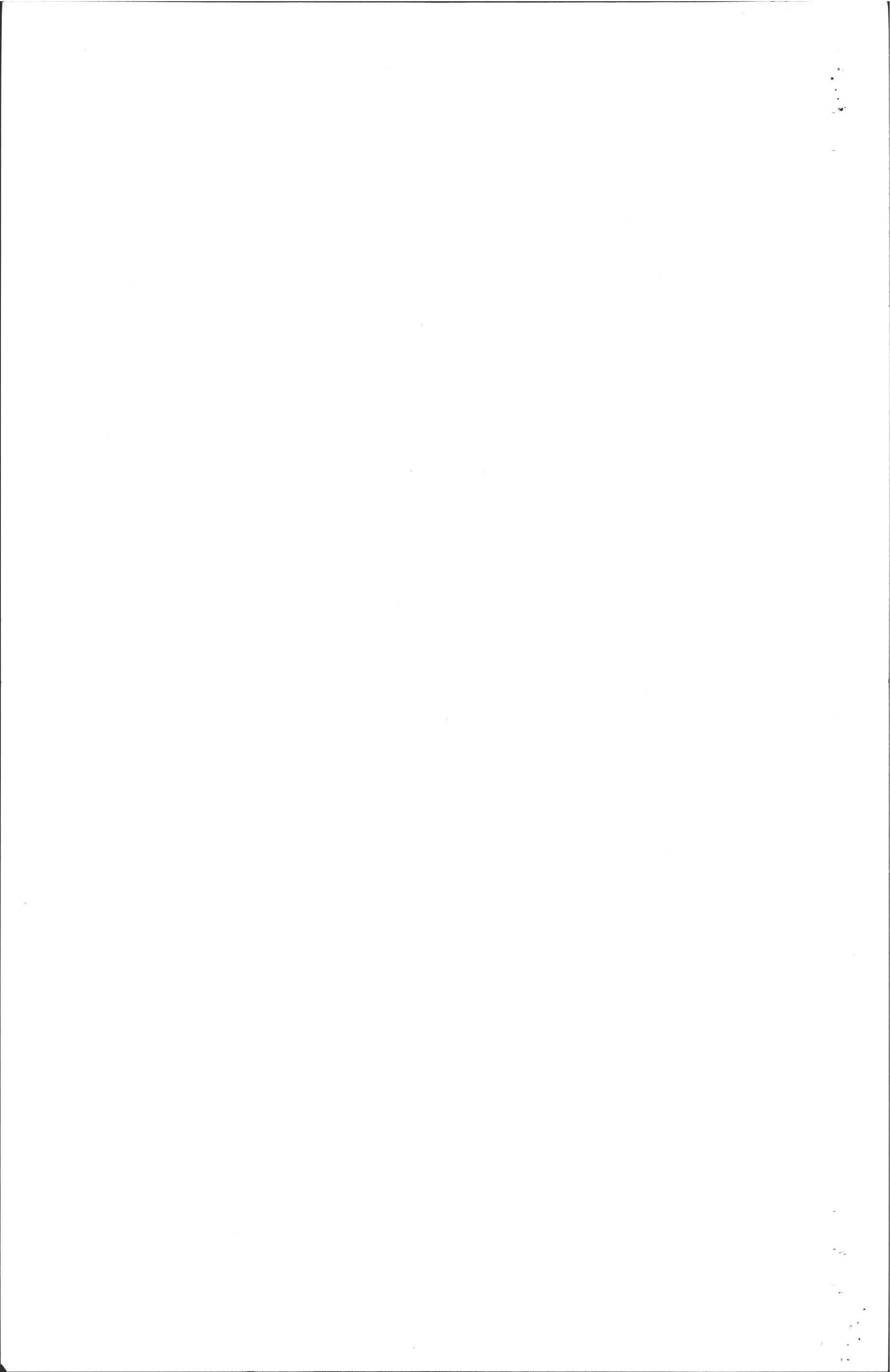
LEACH TRENCH SECTION  
 (Not To Scale)



SYSTEM PROFILE - SECTION PARALLEL TO FLOW  
 (Not To Scale)

|                             |   |                |
|-----------------------------|---|----------------|
| SEPTIC SYSTEM DESIGN        |   | DRAWN BY RMS   |
| AT 669 STATION ROAD AMHERST |   | REVISED        |
| SCALE: AS SHOWN             | APPROVED BY:                            |                |
| DATE: 6-2-94                | FOR PIONEER SENIOR CENTER (JEAN MURRAY) |                |
|                             |   | DRAWING NUMBER |

*Richard Scott*  
 6-2-94





NOTES

FINISH ELEVATION CONTOURS TO APPROXIMATE EXISTING

ALL "BACKYARD" CONSTRUCTION TO MAINTAINED AS CLOSE AS POSSIBLE TO BACK OF HOUSE. BACKYARD CONSTRUCTION TO BE COMPLETED IN ONE DAY DURING DRY WEATHER ONLY

EFFLUENT PUMP SYSTEM TO BE GOULD MODEL 3886 OR EQUAL IN FRP OR CONCRETE CHAMBER W/ FLOAT CONTROLS & ALARM WIRED TO MAIN FLOOR OF HOUSE.

PERFORATED PIPE IN LEACH TRENCHES TO BE SCH. 40 PVL OR SDR 35

CAREFULLY LOCATE INCOMING MUNICIPAL WATER SUPPLY LINE BEFORE ANY "FRONT YARD" EXCAVATION. AS A MINIMUM, PRESSURE-TEST THIS INCOMING LINE. PREFERRED, SUGGESTED METHOD IS TO RELOCATE THIS LINE TO WEST SIDE OF LEACH TRENCH AREA.



SEPTIC SYSTEM REPAIR DESIGN  
 AT 669 STATION ROAD, AMHERST

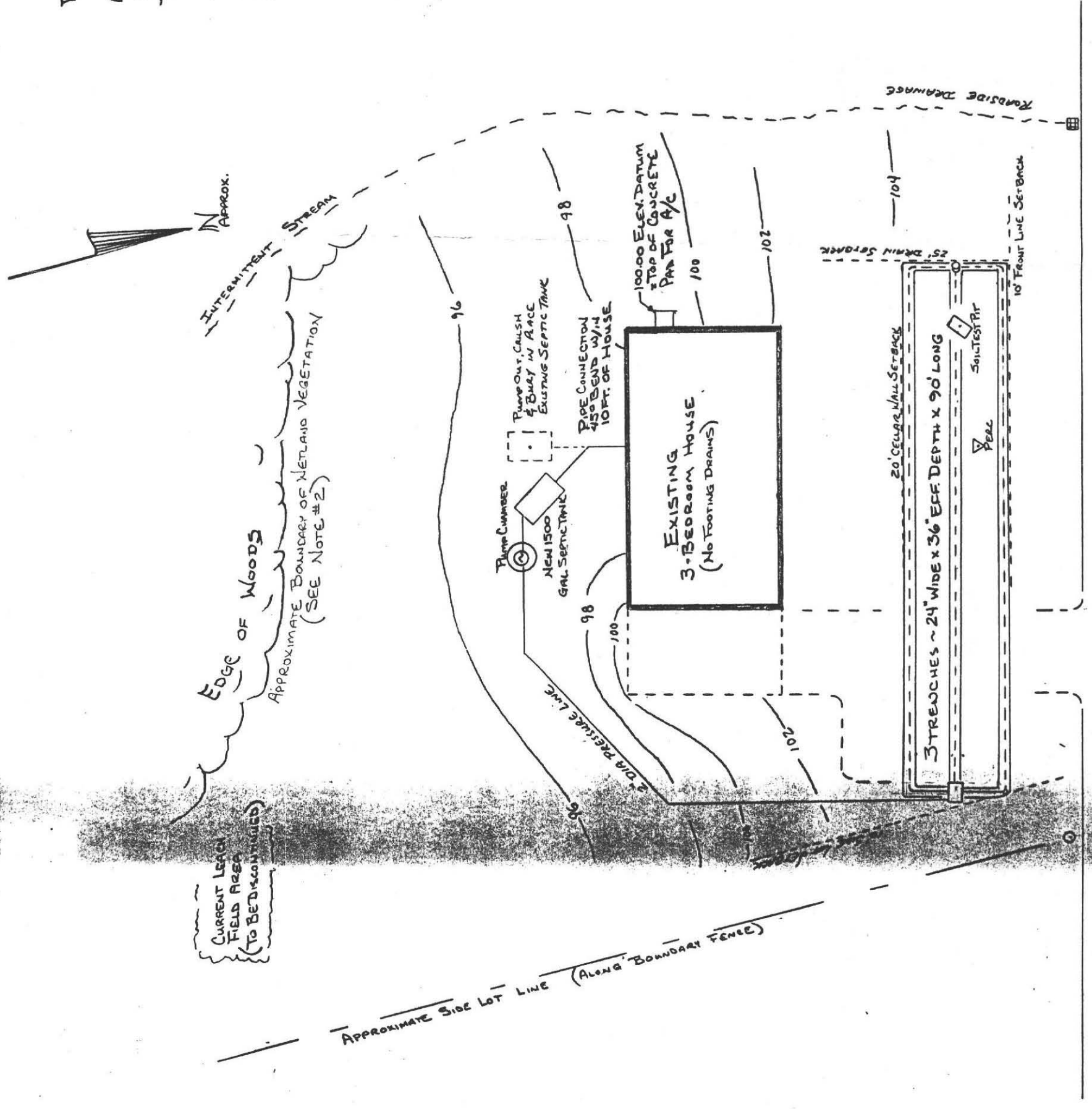
SCALE: 1" = 20'  
 DATE: 6-4-94

APPROVED BY: [Signature]  
 DRAWN BY: RMS

REVISION: 5-7-94 - Address Verification Note

FOR PIONEER SENIOR SERVICES

DRAWING NUMBER



STATION ROAD

