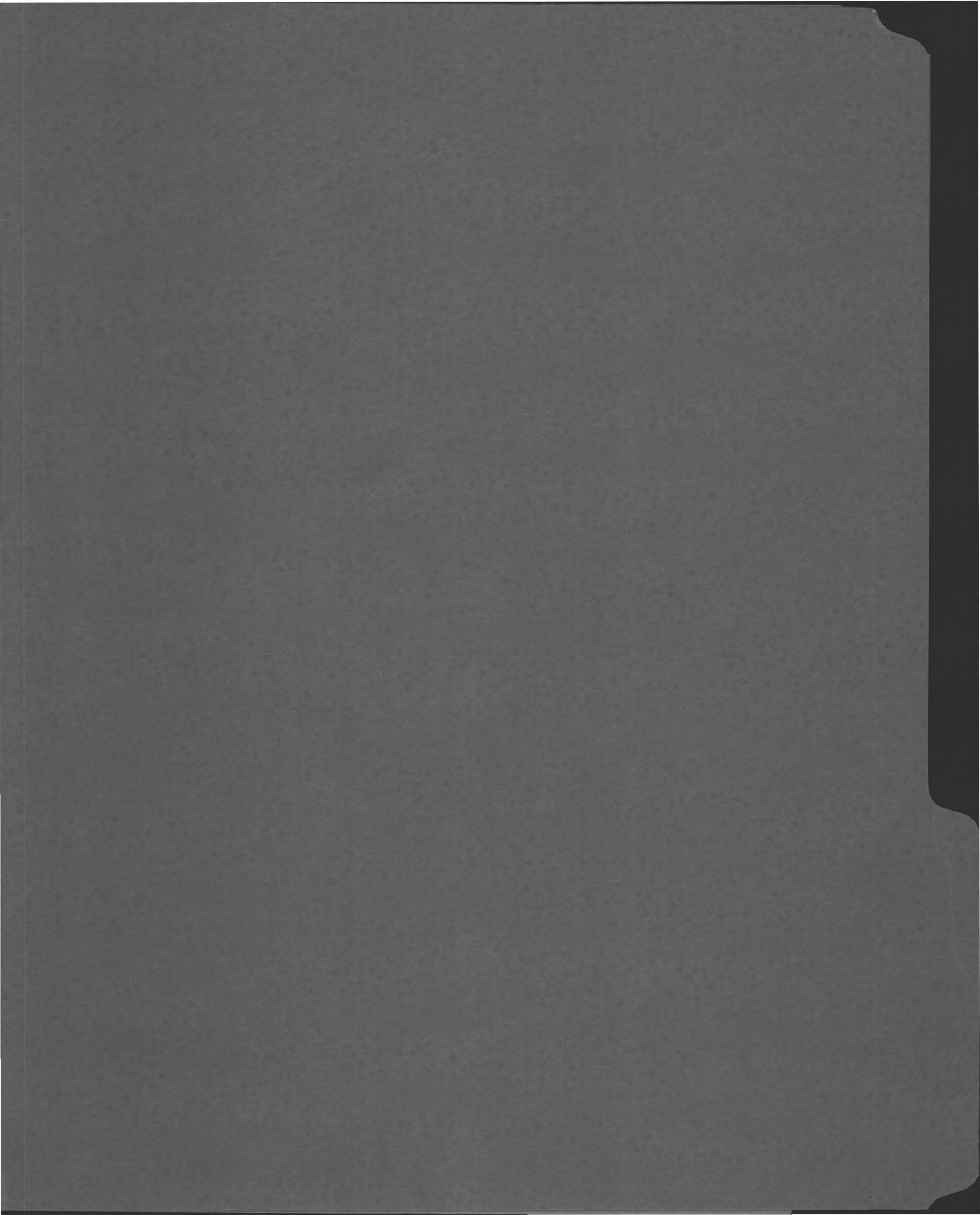
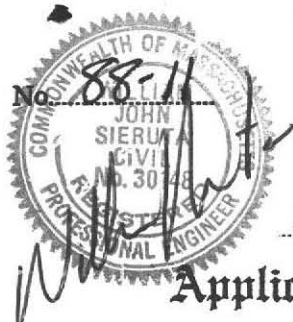


104 LARKSPUR





#104

MAR 29 1988

Fee 90.00 #1248

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 (X) or Repair () an Individual Sewage Disposal System at: 104 Larkspur
LOT 79 Amherst MASS LOT #79 Amherst Woods
ROBERT FALKENBACH Location - Address 15 FOREST RD or Lot No. BELCHERTOWN
CHUCK WALKER Owner Address Belchertown MA.
Installer

Type of Building 4 bedrooms
Dwelling - No. of Bedrooms 4 Expansion Attic () Garbage Grinder ()
Other - Type of Building Residential No. of persons 8 Showers (2) - Cafeteria ()
Other fixtures 2 1/2 bathrooms Full Bmt, DISPOSAL
Design Flow 110 gallons per person per day. Total daily flow 440 gallons.
Septic Tank - Liquid capacity.....gallons Length..... Width..... Diameter..... Depth.....
Disposal Trench - No. Width..... Total Length..... Total leaching area.....sq. ft.
Seepage Pit No. 1 Diameter 18' x 13' Depth below inlet 55" Total leaching area.....sq. ft. bottom 239 ft²
Other Distribution box () Dosing tank ()
Percolation Test Results Performed by William Sieruta Date 3/17/88
Test Pit No. 1 2.0 minutes per inch Depth of Test Pit 52 Depth to ground water DNA 5100
Test Pit No. 2 2.0 minutes per inch Depth of Test Pit 59 Depth to ground water DNA 284.2
Description of Soil TPI-1 0-4" FOREST LOAM OTS 4"-16" GRAVEL
SUB SOIL 16"-132" MED SAND & GRAVEL
NO H₂O or OXIDES TPI-2 0-4" OTS FOREST LOAM
4"-16" GRAVEL SUB SOIL 16"-140" MED SAND
Nature of Repairs or Alterations - Answer when applicable AND GRAVEL NO H₂O OR OXIDES.

Agreement:
The undersigned agrees to install the aforescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Sanitary 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 Robert Falkenbach Date 3/28/88

Application Approved By.....
Application Disapproved for the following reasons:.....
Permit No. 88-11 Issued..... Date.....

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH
Town of Amherst
Certificate of Compliance

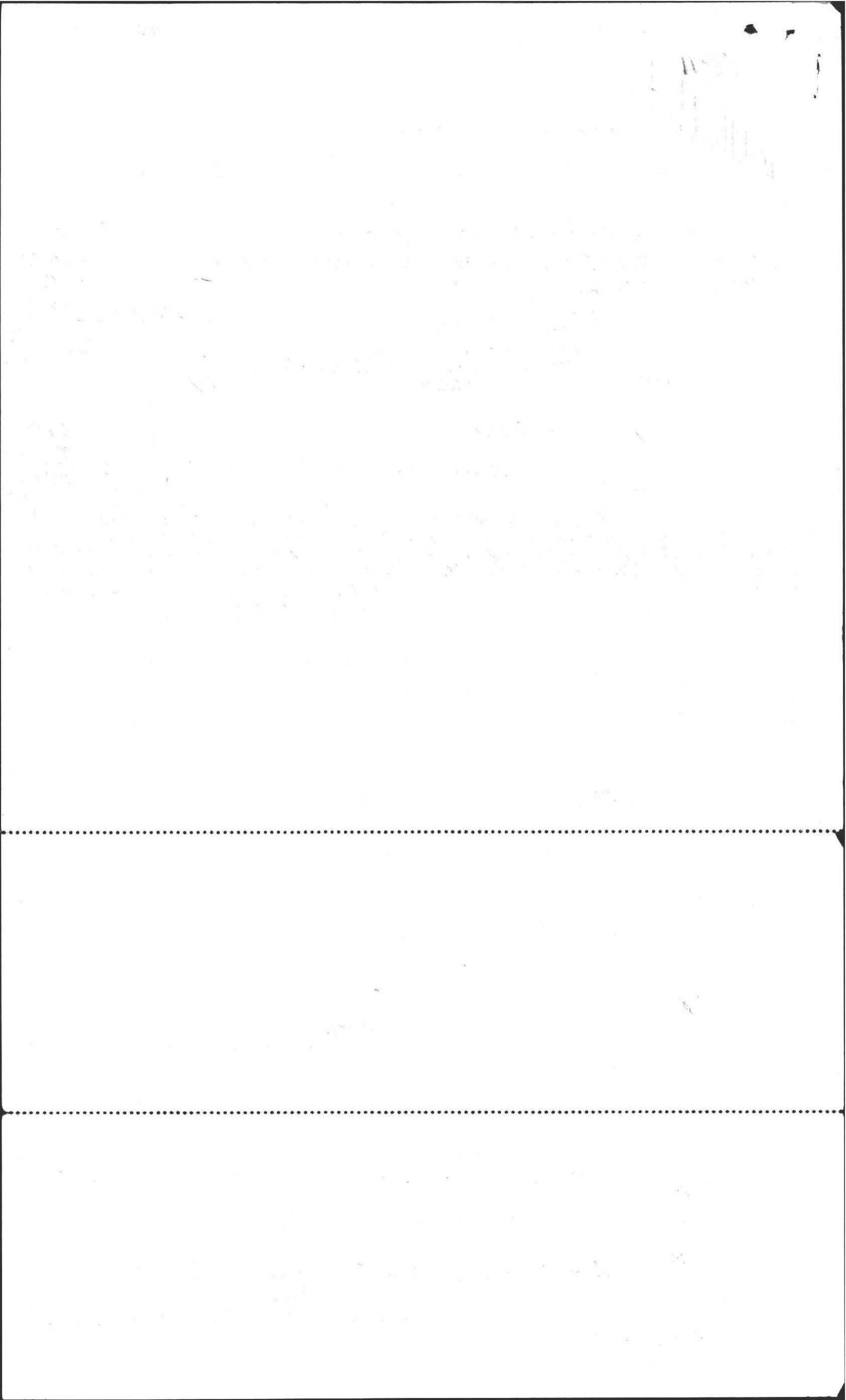
THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed (X) or Repaired () by Charles Walker Installer at Lot 99 Larkspur Drive has been installed in accordance with the provisions of TITLE 5 of The State Sanitary Code as described in the application for Disposal Works Construction Permit No. 88-11 dated.....

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.
DATE Dec 7, 1988 Inspector David Gergenski

THE COMMONWEALTH OF MASSACHUSETTS
BOARD OF HEALTH
Town of Amherst

No. 88-11 Fee \$90.00
Disposal Works Construction Permit
Permission is hereby granted Charles Walker to Construct (X) or Repair () an Individual Sewage Disposal System at No. Lot 79 Larkspur Drive (Amherst Woods) Robt. Falkenbach Street as shown on the application for Disposal Works Construction Permit No. 88-11 Dated March 30, 1988 for Amherst Health Dept: Dennis D. Pinkie Board of Health

CHECK OR FILL IN WHERE APPLICABLE



PERCOLATION TEST TABULATION:

1 # 2 # _____ # _____

START PRESOAK				
END PRESOAK				
TIME @ 12"	<i>12²⁷</i>	<i>12⁴⁶</i>		
TIME @ 9"				
TIME @ 6"	<i>12²⁹</i>	<i>12⁴⁹</i>		
ELAPSED TIME 9"-6"				
RATE (MIN/IN)	<i>2 min./inch</i>	<i>2 min./inch</i>		

BREAKDOWN BY INCH: (optional)

12"				
11"				
10"				
9"				
8"				
7"				
6"				

Wells or Septic Systems Nearby: _____

House Style: _____ Desired Orientation: _____

House Dimensions: _____ # Bedrooms: _____

Excavation By: _____

Copies Sent: Board of Health _____ Client _____

LOCATION OF PROP.: *Wm. Falkenbach*
Lot #99 Larkspur Drive
Amherst, MA.

LOT NO.:

DATE PERFORMED: *March 17, 1988*

PERFORMED BY: *William Sieruta P.E.*

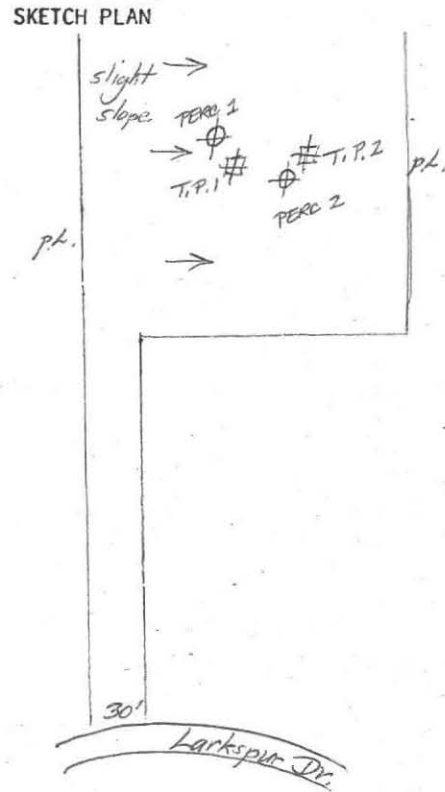
WITNESSED BY: *for Amherst Bd. of Health: D. Pinski*

PERK TEST RESULTS: (tabulation on back)

1. *A. (1) 2 minutes/inch at 54" depth*
2. *B. (2) 2 minutes/inch at 54" depth*
- 3.
- 4.

COMMENTS: *Retest of lot conducted this day.*
Site appears to be suitable for the location of a
subsurface sewage disposal system. Hold for plans.

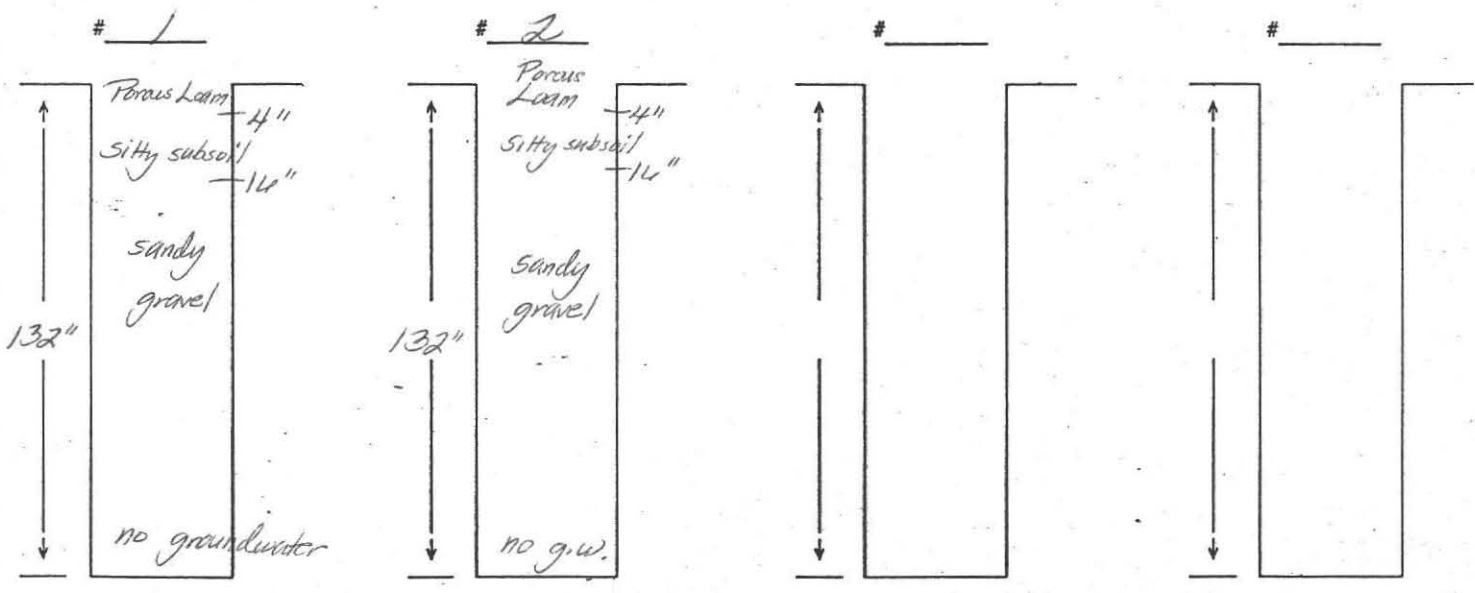
No Scale - Lot Configuration Approximate



Test site N 300 ft.
from Larkspur Drive
turnaround

□ INDICATES OBSERVATION HOLES
 ○ INDICATES PERK TEST LOCATION

∇ denotes groundwater
 OBSERVATION HOLES



MAR 29 1988

PERCOLATION TEST INFORMATION

TP1 ELEV 256		TP2 ELEV 256.2	
4" FOREST TOP SOIL	0-4"	4" FOREST TOP SOIL	0-4"
12" GRAVEL SUB SOIL	4-16"	12" GRAVEL SUB SOIL	4-16"
MED SAND AND GRAVEL	16-132"	MED SAND AND GRAVEL	16-190"

NO H₂O OR OXIDES

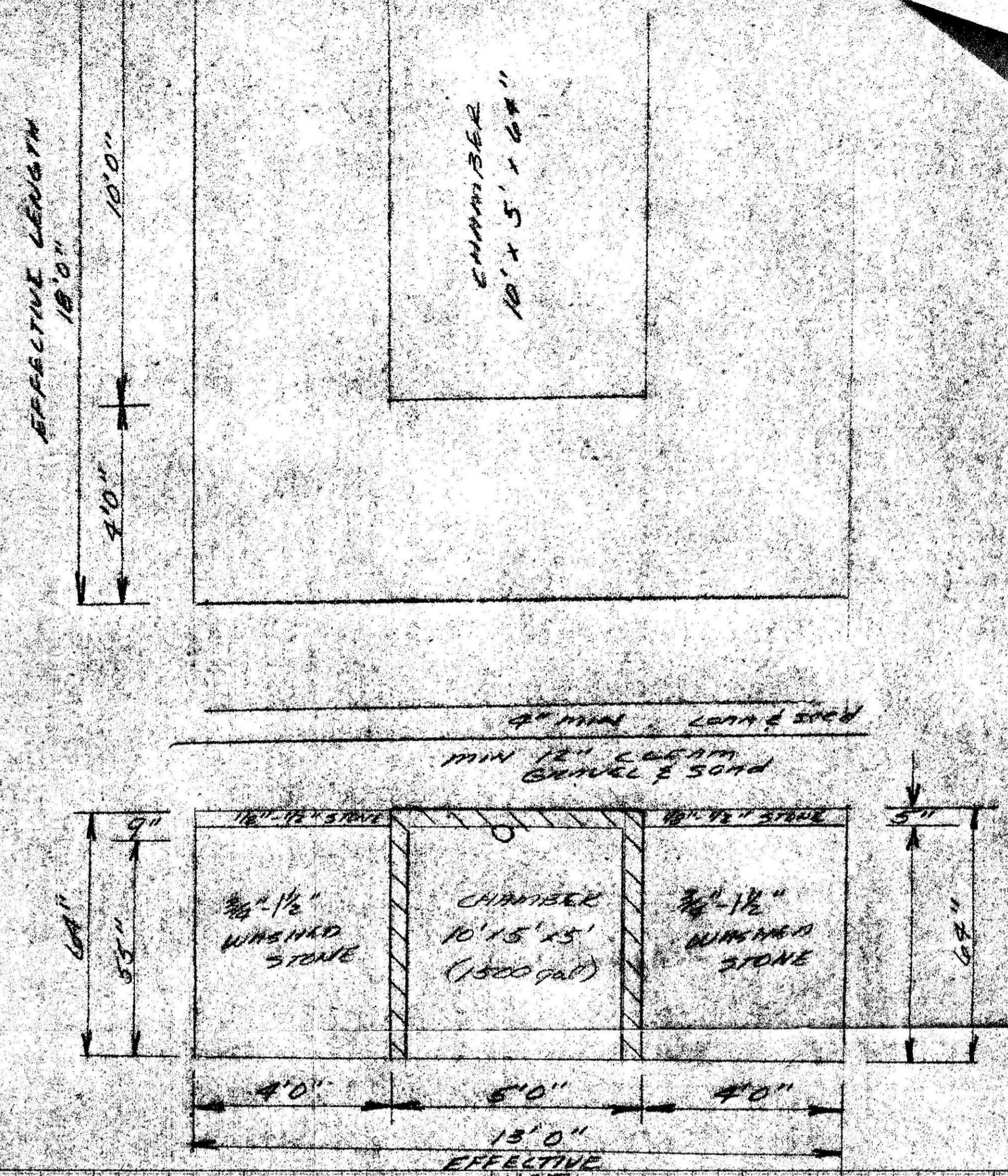
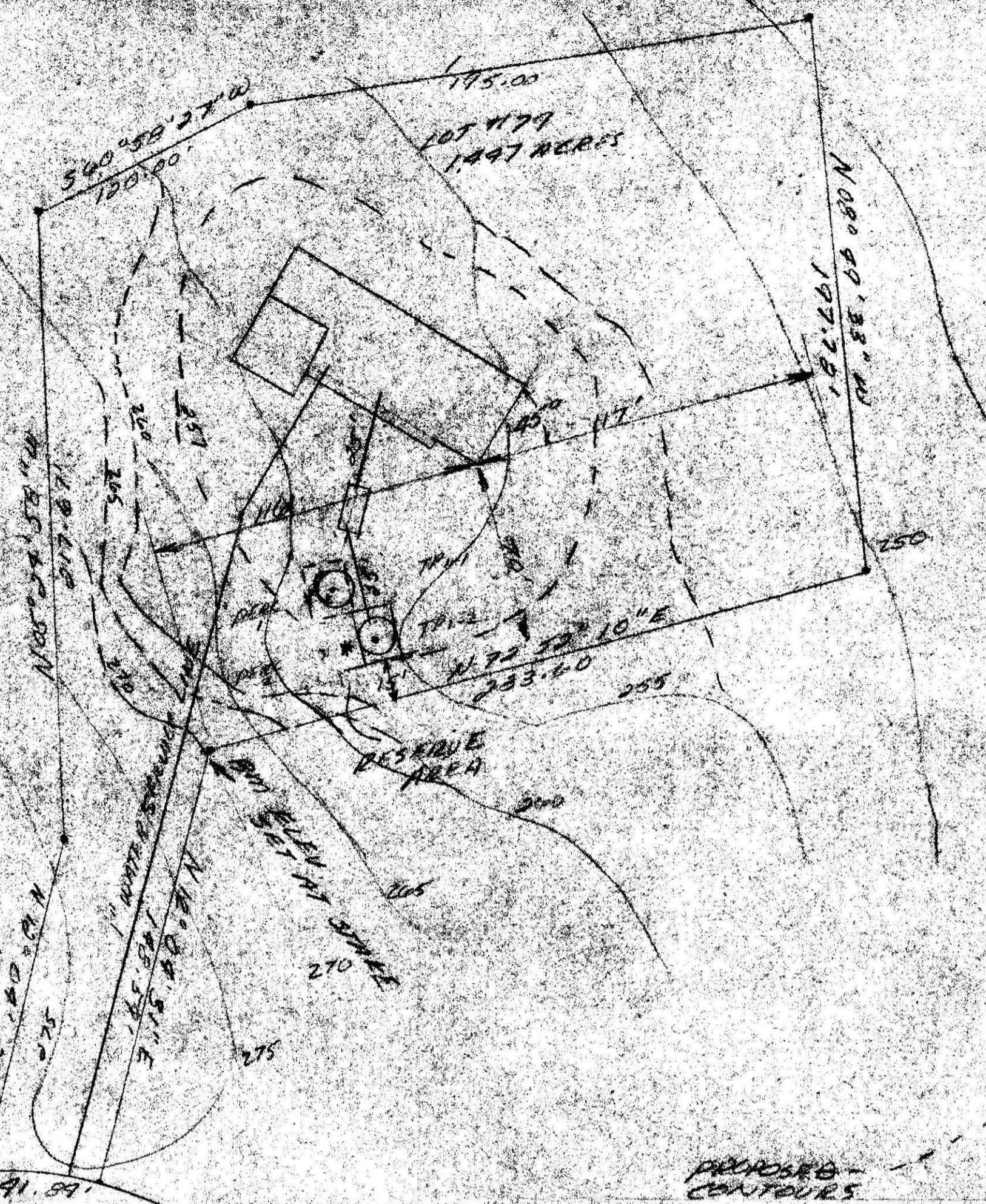
TEST DATE 3/17/88
ENGR: WJSTERUTA PE.
WITNESS: D. PIUSKI

PERCOLATION TEST 1 - ACTUAL RATE .33 MIN TO INCH DESIGN 2.0 MIN TO INCH
PERCOLATION TEST 2 - ACTUAL RATE .60 MIN TO INCH DESIGN 2.0 MIN TO INCH

DEPTH OF PERCOLATION TESTS 52"

BM ELEV SET AT PIN STAKE 272 FT

SCALE 40' = 1"



DESIGN NOTES

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 310 CMR 15.00 TITLES AND LOCAL BOARD OF HEALTH REGULATIONS

FINISH CONTOURS TO REMAIN SIMILAR TO EXISTING PROFILE. REGRADING REQUIRED SUFFICIENT TO PROVIDE SURFACE DRAINAGE. REGRADING AND FILL NEED OVER DESIGN CRITERIA CHAMBER.

USE RESIDENTIAL WOOD SINGLE FAMILY 4 BEDROOMS + 2 BATHROOMS, FULL KIT WITH DISPOSAL

DESIGN FLOW 310 CMR 15.03
110 GPD/BED ROOM + 9 BEDROOMS = 440 GPD/day

SEPTIC SYSTEM TANK
310 CMR 15.06 + LOCAL HEALTH 210
440 GPD/day x 200% x 1.25% = 1100 GPD
USE 1500 GPD TANK PERCEST LONG
12'6" x 5'0" x 5'0" 54" DIA

LEACHING SYSTEM
DUE TO EXCELLENT SOIL CONDITIONS AND DEEP PERM TO GROUND WATER USE LEACHING CHAMBER DESIGN 310 CMR 15.11
DESIGN FLOW 440 GPD/day + 150% x 1.25%
845 GPD/day

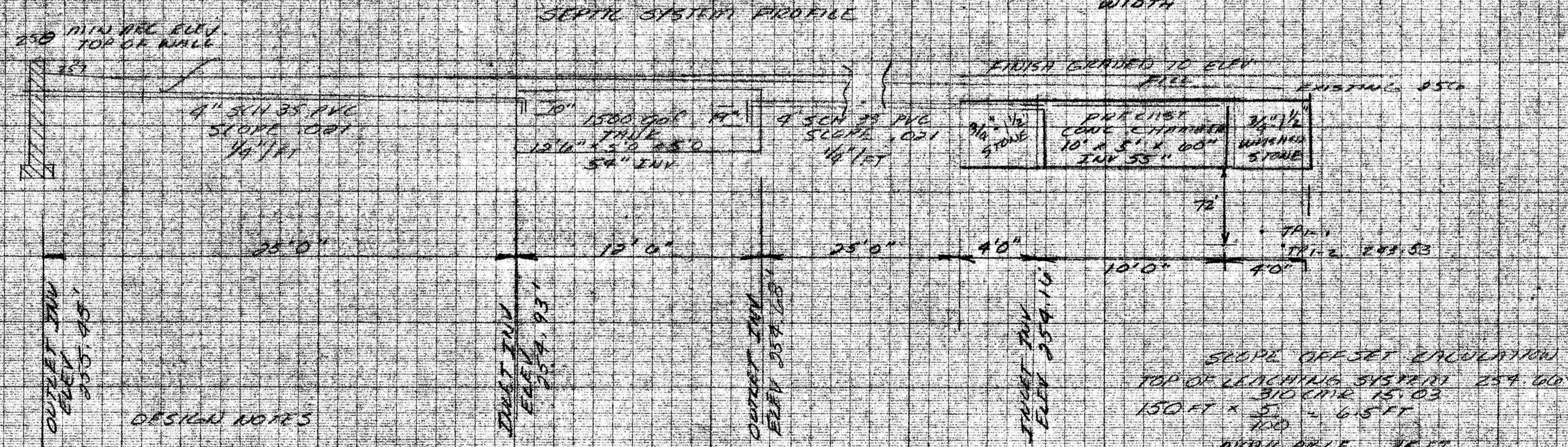
USE ROUND CHAMBER 1500 GAL
CHAMBER LENGTH 10'0" USING SET OF STONE ON ALL SIDES
DIAMETERS WIDTH 5'0"

PERMEABILITY BOTTOM 1.0 GPD/FT²
SIDEWALL 2.5 GPD/FT²
DEPTH 55"
EFFECTIVE LENGTH 18'0"
EFFECTIVE WIDTH 13'0"
EFFECTIVE DEPTH 55"
BOTTOM AREA 239 FT² 239 FT² x 1.0 = 239.2 x 2.5
SIDE WALL AREA 239 - 144.5 GPD/day

DESIGN NOTES

- INLET AND OUTLET TEES INSIDE TANK TO BE IN ACCORDANCE WITH 310 CMR 15.04 (B, C)
- TANK AND CHAMBER TO BE SET LEVEL AND ON COMPACTED MATERIAL
- ALL PIPE JOINTS WITH TANK AND CHAMBER TO BE PORTLAND SEALED

SEPTIC SYSTEM PROFILE



SCOPE OFFSET CALCULATION
TOP OF LEACHING SYSTEM 254.60
310 CMR 15.03
150 FT x 5' = 6.5 FT
110
MINIMUM 15 FT WITH REGRADING 72 FT

SCALE 4" = 6 FT VERT
1" = 4 FT HORIZ

SEPTIC SYSTEM DESIGN
ROBERT FALKENBACH
15 FOREST RD
BELCHERTOWN MASS
FOR
LOT # 17
HARDY WOODS
ENGR. WJ STERUTA
DATE MARCH 23 1988

119-2
165

MADE IN U.S.A.

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MAR 29 1988