

#500

PD CH 384

MAR 15 1990

No. 90-4

REVISED MARCH 15, 1990  
THE COMMONWEALTH OF MASSACHUSETTS

Peace + PLAN

FEE 160.00



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:

500 Sunderland Road (Route 116)  
Kenneth Bergstrom  
Location - Address or Lot No.

Morawski EXCAV. RFD South Deerfield  
E. WATKEY Installer 665-4654  
Address

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

Design Flow 5.5 gallons per person per day. Total daily flow 330 x 1.25 = 412.5 gallons.  
Septic Tank - Liquid capacity 1000 gallons Length 8 1/2' Width 5' Diameter Depth 5' 4"

Disposal Trench - No. Width Total Length Total leaching area sq. ft.  
Seepage Pit No. 1 Diameter 25' x 9' Depth below inlet 6' 9' Total leaching area 354 sq. ft. sides and bottom.

Other Distribution box ( ) Dosing tank ( )  
Percolation Test Results Performed by FILIOS ENTERPRISES, INC. Date MARCH 15, 1990  
Test Pit No. 1 2 minutes per inch Depth of Test Pit 13' Depth to ground water 10'  
Test Pit No. 2 minutes per inch Depth of Test Pit 11' Depth to ground water 10'

Description of Soil: Enclosed

Nature of Repairs or Alterations - Answer when applicable

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 Kenneth Bergstrom 3-15-90  
Application Approved By David Zagoranyi for Patrick Deane Kelly 3/15/90  
Date

Application Disapproved for the following reasons:

Permit No. 90-4 Issued 3/15/90 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 Morawski Excav. at Ken Bergstrom House site, 500 Sunderland 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. 90-4 dated 3/15/90

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

DATE 3/19/90 Inspector David Zagoranyi

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town OF Amherst

No. 90-4

PD CH 160.00  
FEE  
Peace + PLAN

Disposal Works Construction Permit

Permission is hereby granted Kenneth Bergstrom to Construct (X) or Repair ( ) an Individual Sewage Disposal System at No. 500 Sunderland Road (Rte 116)

as shown on the application for Disposal Works Construction Permit No. Dated 3/15/90

DATE 3/15/90 Board of Health

CHECK OR FILL IN WHERE APPLICABLE

10/2

Town Abstract

200 Sunderland Road (Route)  
Kenneth Bergstrom  
Some

81678

3

324	30' x 152' = 4152	3'	8'	1000	22
and bottom	2 1/4"				
324		4'	22' x 4'		1

Town Abstract

X  
Ken Bergstrom House site, 200 Sunderland Road,

Town Abstract

X  
200 Sunderland Road (Route)  
Kenneth Bergstrom

TITLE V FEES

Pd 160<sup>00</sup>  
ck. 384

Owner: Kenneth Bergstrom

Site: 500 Sunderland Rd

↓  
Perac  
PLAN

Percolation Test: Per Lot

# \_\_\_\_\_ Date: 3/15/90

# \_\_\_\_\_ Date: \_\_\_\_\_

# \_\_\_\_\_ Date: \_\_\_\_\_

# \_\_\_\_\_ Date: \_\_\_\_\_

# \_\_\_\_\_ Date: \_\_\_\_\_

-----  
Disposal Works Construction Permit

Plan Review Date \_\_\_\_\_

Final Inspection Date \_\_\_\_\_

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Subsequent Plan Review

Date \_\_\_\_\_

Date \_\_\_\_\_

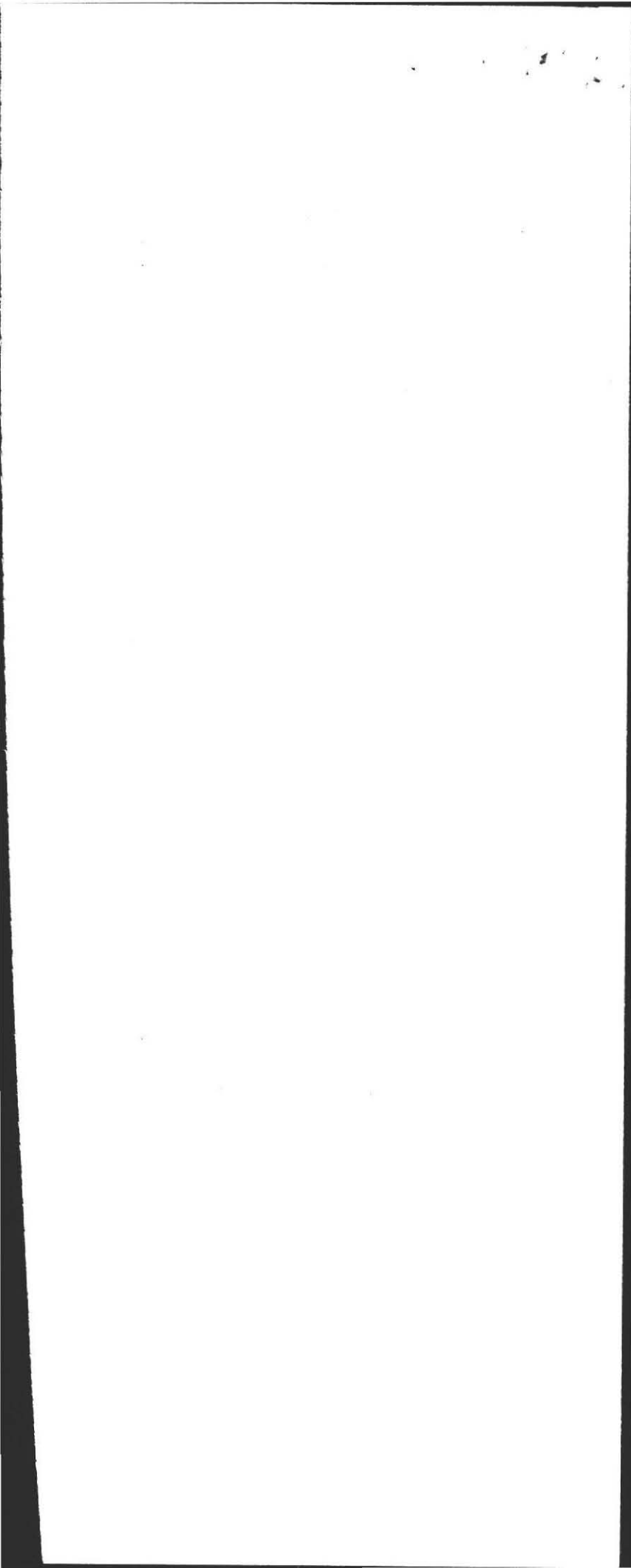
Date \_\_\_\_\_

-----  
Reinspection of Installation

Date \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_



TOWN OF AMHERST

PERC TEST DATA SHEET

CHK #384  
 P.D. 16000  
 Perc + Plan

DATE 3/15/90 LOCATION 500 Sunderland Road LOT SIZE 81678

OWNER Kenneth Bergstrom ADDRESS 500 Sunderland Rd TELE # 549-4118

P.E./RS \_\_\_\_\_ FIRM Filos ENT OBSERVED BY D. ZARAWSKI

BACK HOE OPERATOR MIKE MORAWSKI BENCH MARK \_\_\_\_\_

PERC DEPTH 70" PRE SOAK TIME 2:40 PERC DEPTH 48" PRE SOAK TIME 3:03

TEST 2:55 12" 3:00 7"  
2:58-9" 3:01 6"  
2:59 8"

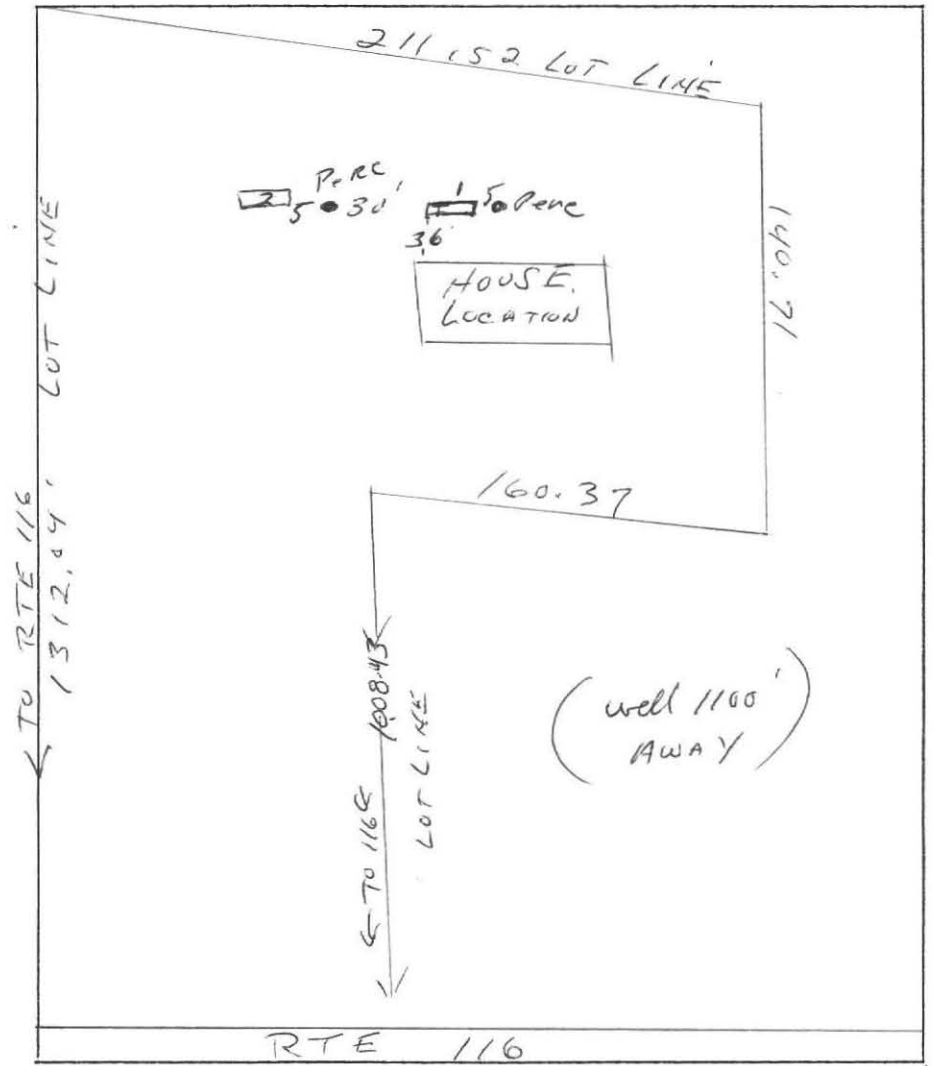
CAN'T HOLD

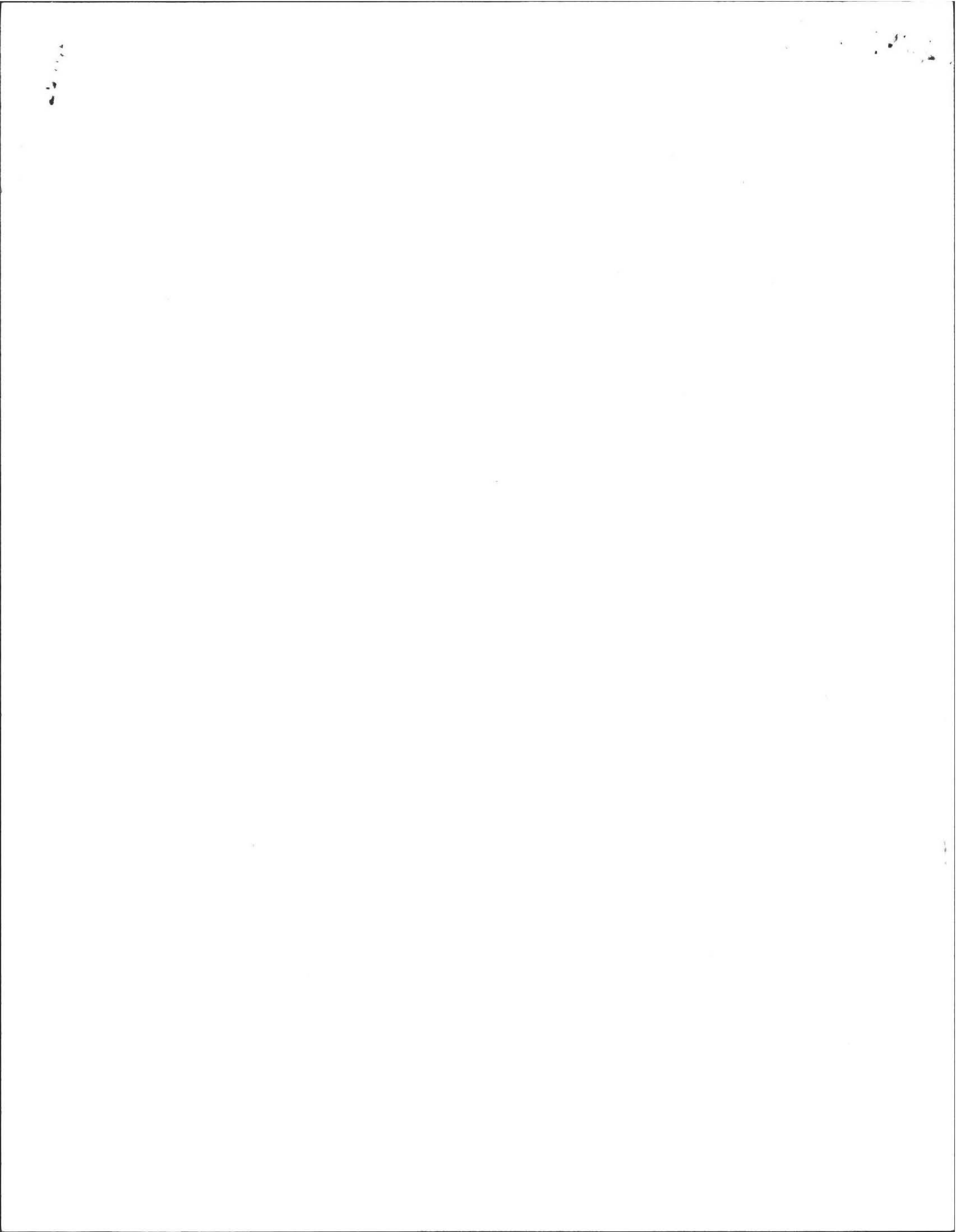
RATE (2) RATE (2)

#1	#2
TOP 4	TOP 4
SUB 25"	SUB 26"
FINE SAND 13'	FINE SAND SANDSTONE 11'

TOP	TOP
SUB	SUB

TOP	TOP
SUB	SUB





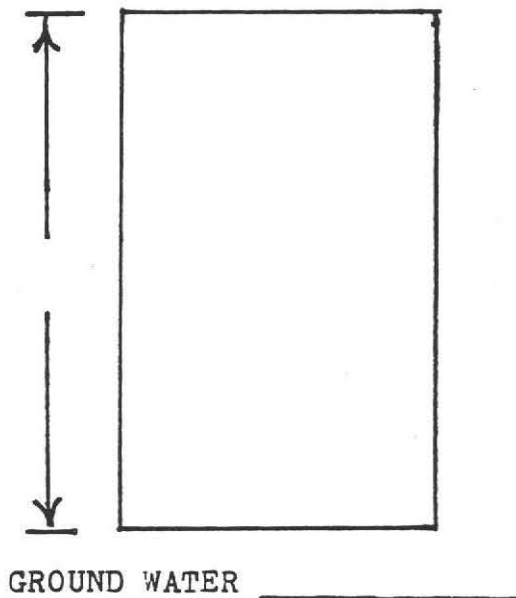
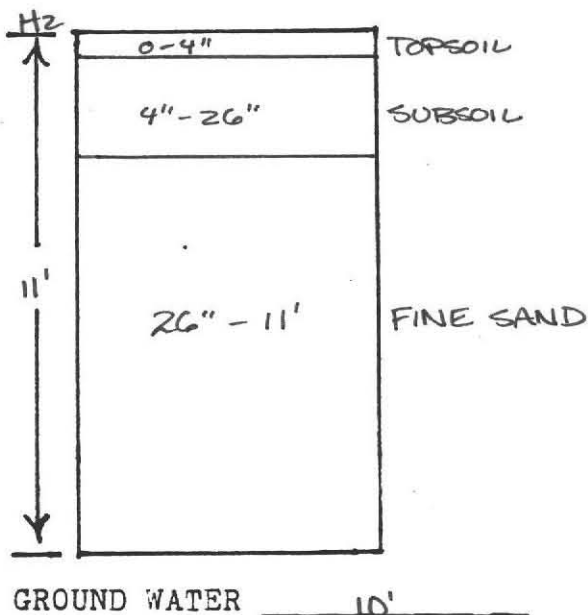
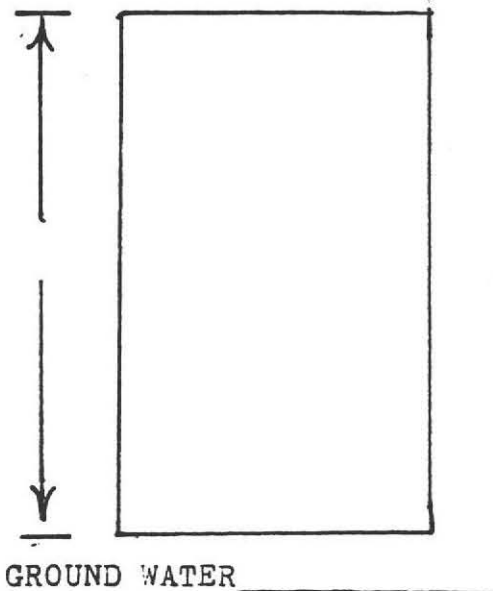
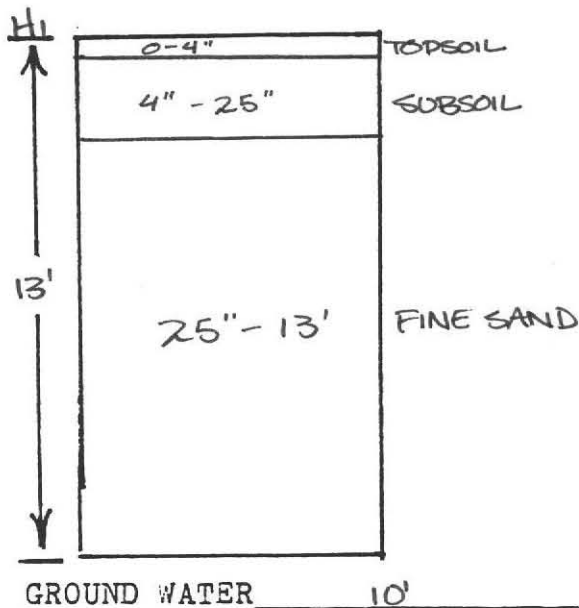
DEEP SOIL LOGS

OWNER KEN BERGGSTROM

DATE MARCH 15, 1990

LOCATION PED WING MEADOW FARM  
AMHERST, MA 01002

OBSERVER Filios Enterprises, Inc.  
B. of H. DAVID ZAROZINSKI



#1 PERCOLATION RATE AT 70" :  
2 min./inch

#2 PERCOLATION TEST AT 48" :  
2 MIN./INCH



1887  
1888  
1889

1890  
1891  
1892

1893  
1894  
1895

1896  
1897  
1898

1899  
1900



# LOCUS PLAN

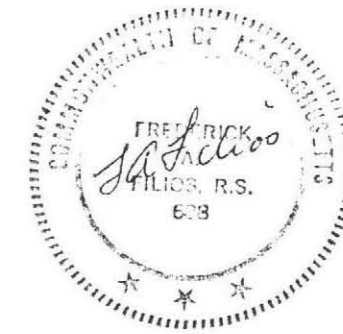
FOR: KEN BERGSTROM  
RED WING MEADOW FARM  
AMHERST, MA 01002

BY: FILIOS ENTERPRISES, INC  
69 PELHAM ROAD  
AMHERST, MA 01002  
CRAIG

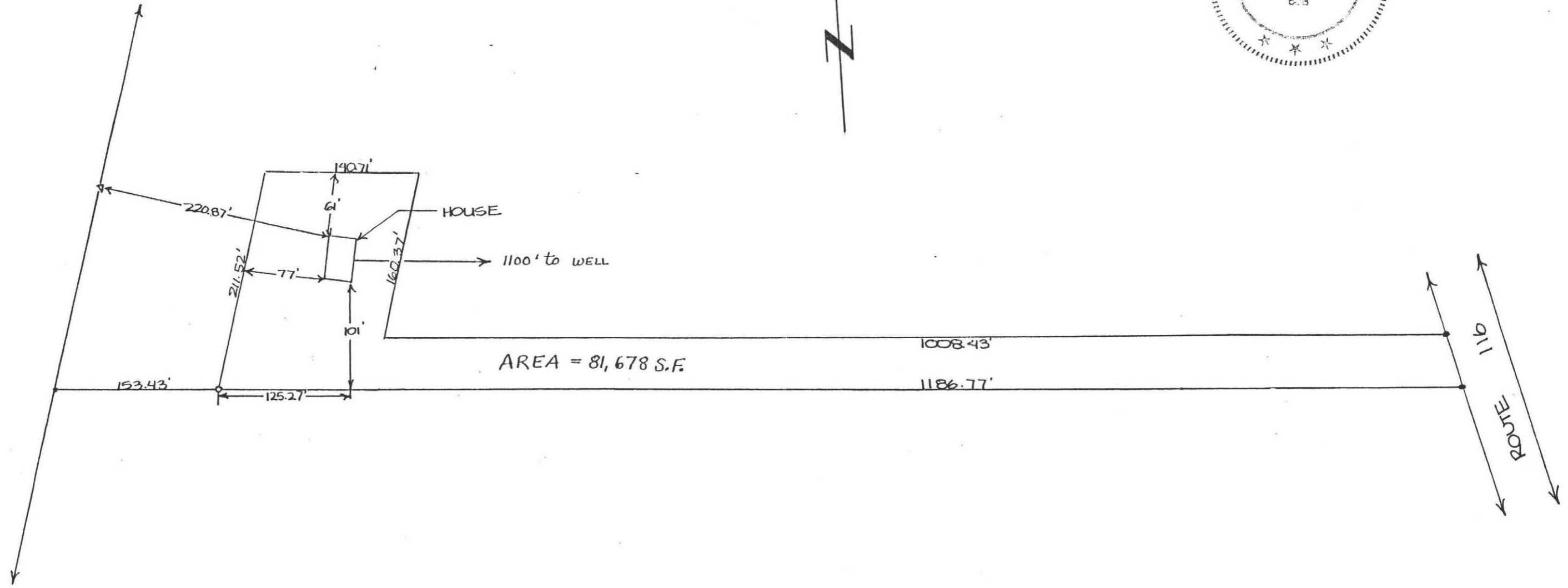
SITE: RED WING MEADOW FARM  
500 SUNDERLAND ROAD  
AMHERST, MA

DATE: NOVEMBER 28, 1989

SCALE: 1" = 100'-00"



- NOTES: 1.) SEE PLAN DETAIL FOR INFORMATION CONCERNING THE SEWAGE DISPOSAL SYSTEM.
- 2.) "LOCUS PLAN" USED ONLY FOR PROPERTY DIMENSIONS AND HOUSE LOCATION.





PLAN SHOWING SEWAGE DISPOSAL (DETAIL)

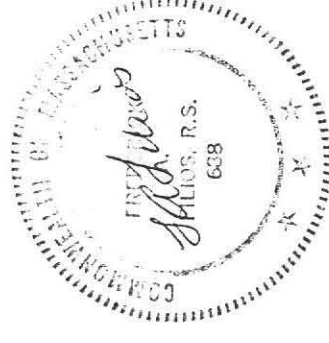
FOR: KEN BERGSTRÖM  
 RED WING MEADOW FARM  
 AMHERST, MA 01002

B4: FILIOS ENTERPRISES, INC.  
 69 PELHAM ROAD  
 AMHERST, MA 01002

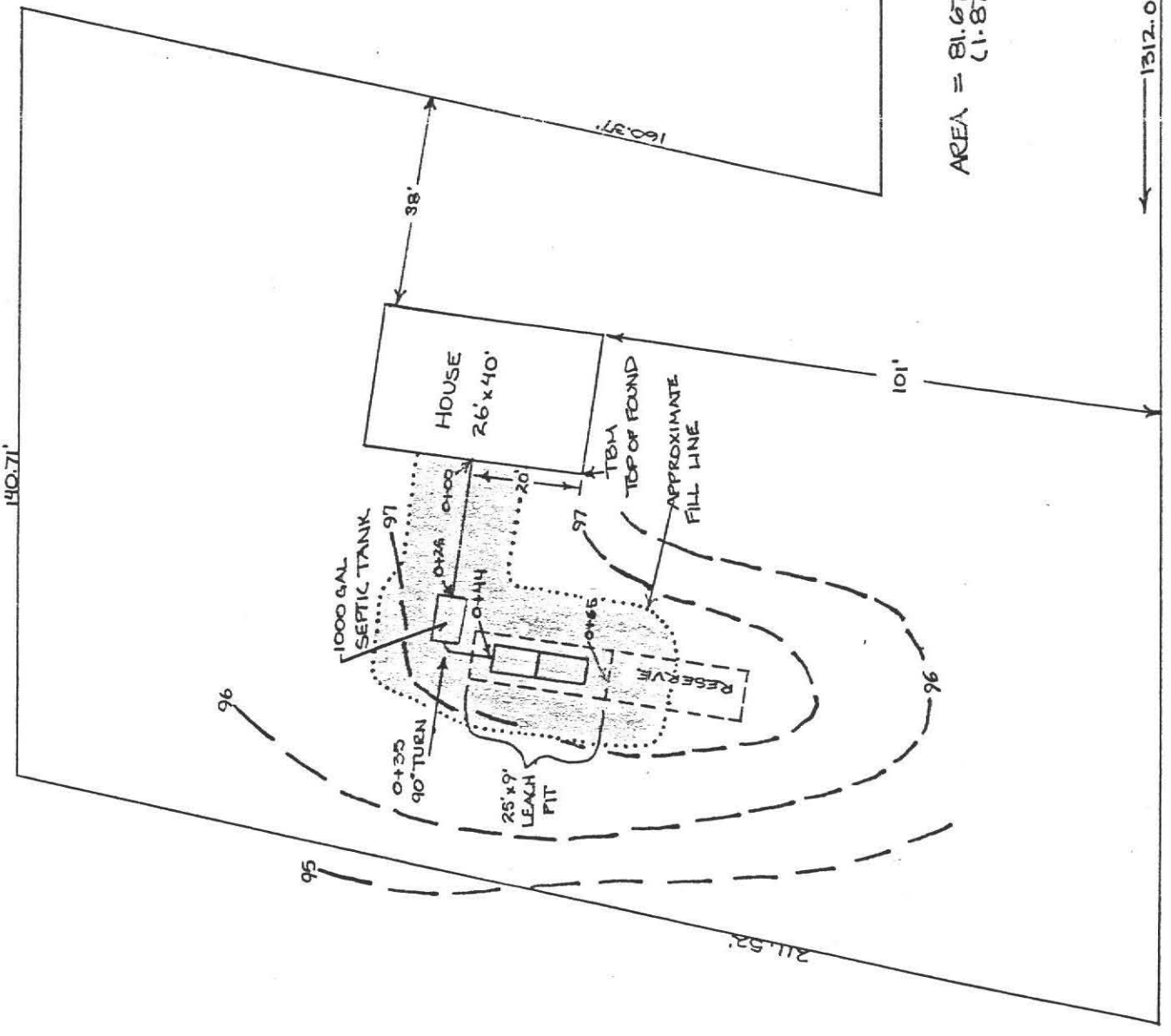
SITE: RED WING MEADOW FARM  
 500 SUNDERLAND ROAD  
 AMHERST, MA

DATE: NOVEMBER 28, 1981

SCALE: 1" = 30' - 00"



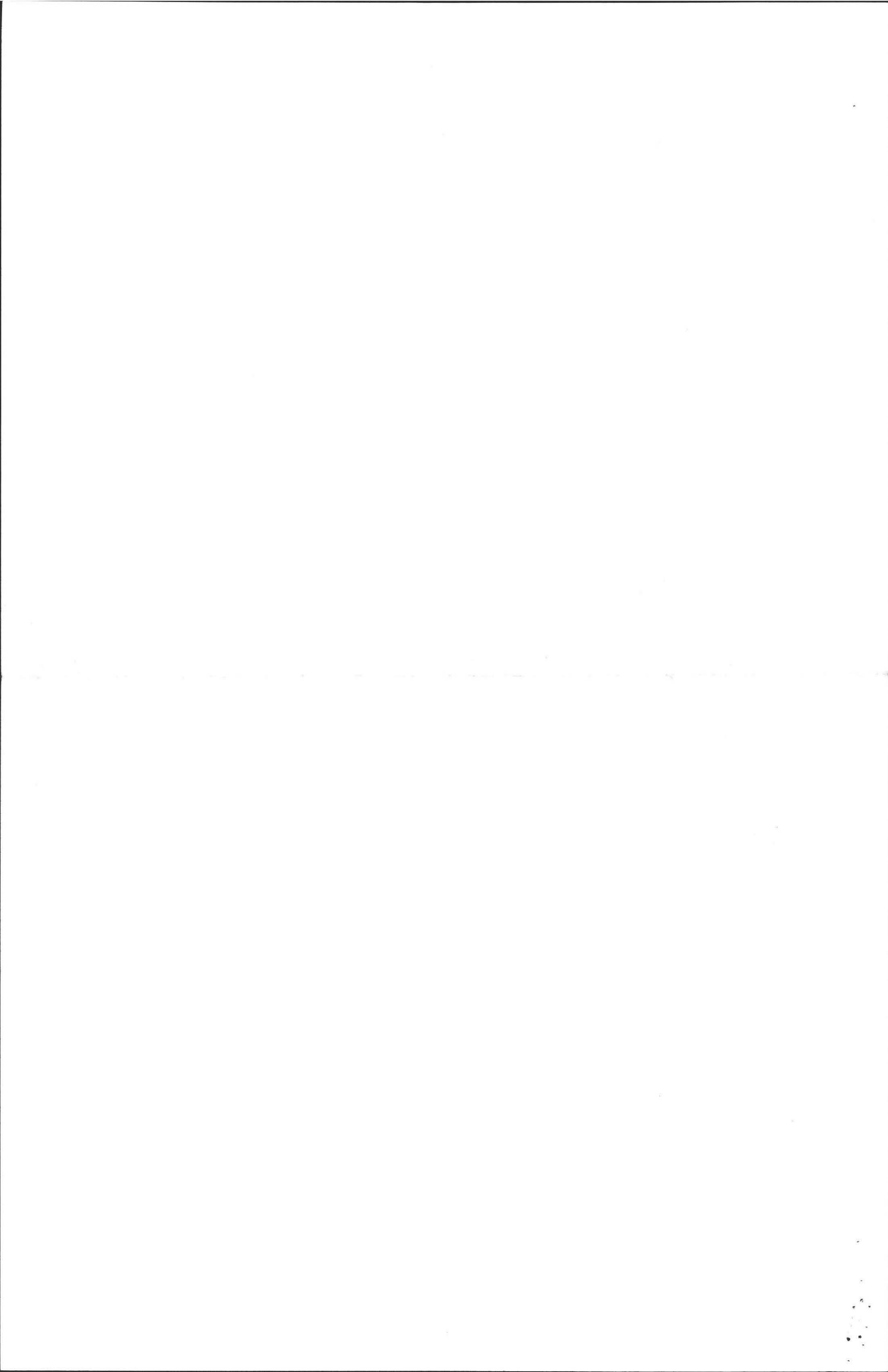
1100' BETWEEN HOUSE & WELL LOCATED  
 ON OTHER LAND OWNED BY BERGSTRÖM.



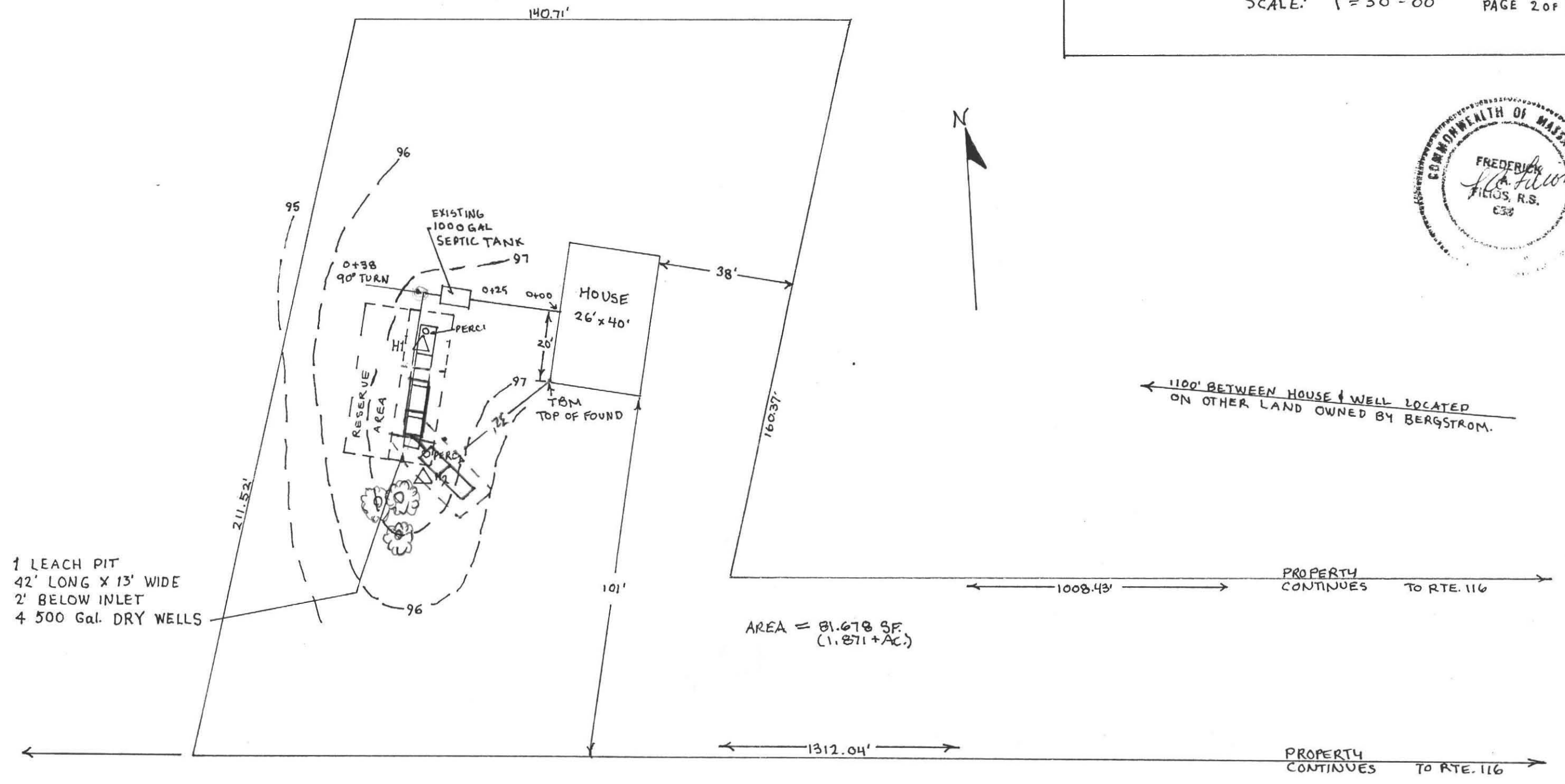
PROPERTY CONTINUES TO RTE. 116

PROPERTY CONTINUES TO RTE. 116

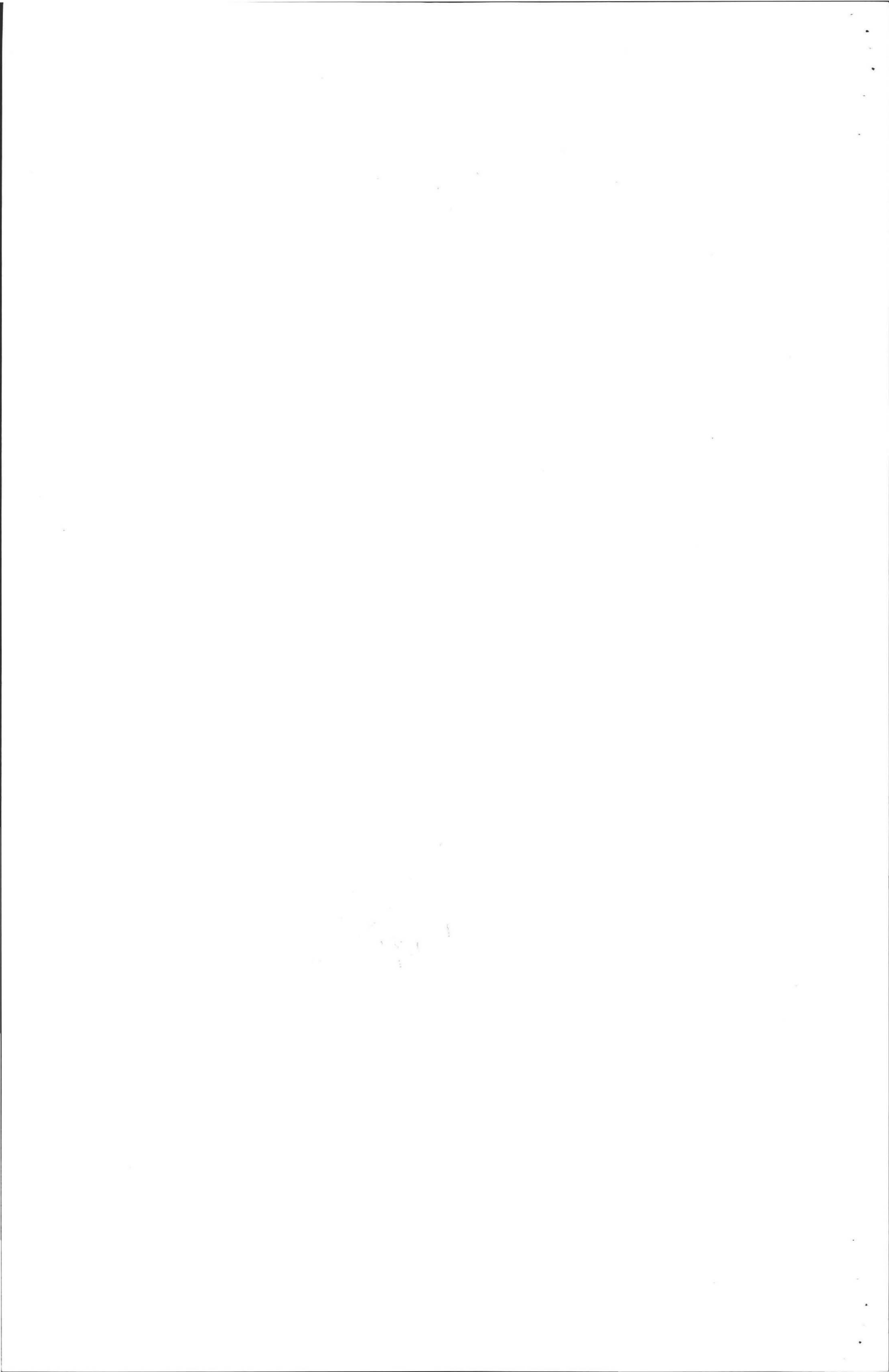
AREA = 81,678 SF.  
 (1.871+AC.)



**PLAN SHOWING SEWAGE DISPOSAL (DETAIL)**  
 FOR: JOHN + TRACY REID  
 500 SUNDERLAND ROAD  
 AMHERST, MA 01002  
 BY: FILIOS ENTERPRISES, INC  
 69 PELHAM ROAD  
 AMHERST, MA 01002  
 DATE: NOVEMBER 28, 1989  
 REVISION: JANUARY 5, 1996  
 SCALE: 1" = 30'-00" PAGE 2 OF 3



1 LEACH PIT  
 42' LONG X 13' WIDE  
 2' BELOW INLET  
 4 500 Gal. DRY WELLS





AMHERST *Massachusetts*

Bettye Anderson Frederic, Director

AMHERST HEALTH DEPARTMENT  
70 BOLTWOOD WALK  
AMHERST, MA 01002-2128  
(413) 253-7077

January 18, 1989

Ken Bergstrom  
Red Wing Meadow Farm  
500 Sunderland Road  
Amherst, MA 01002

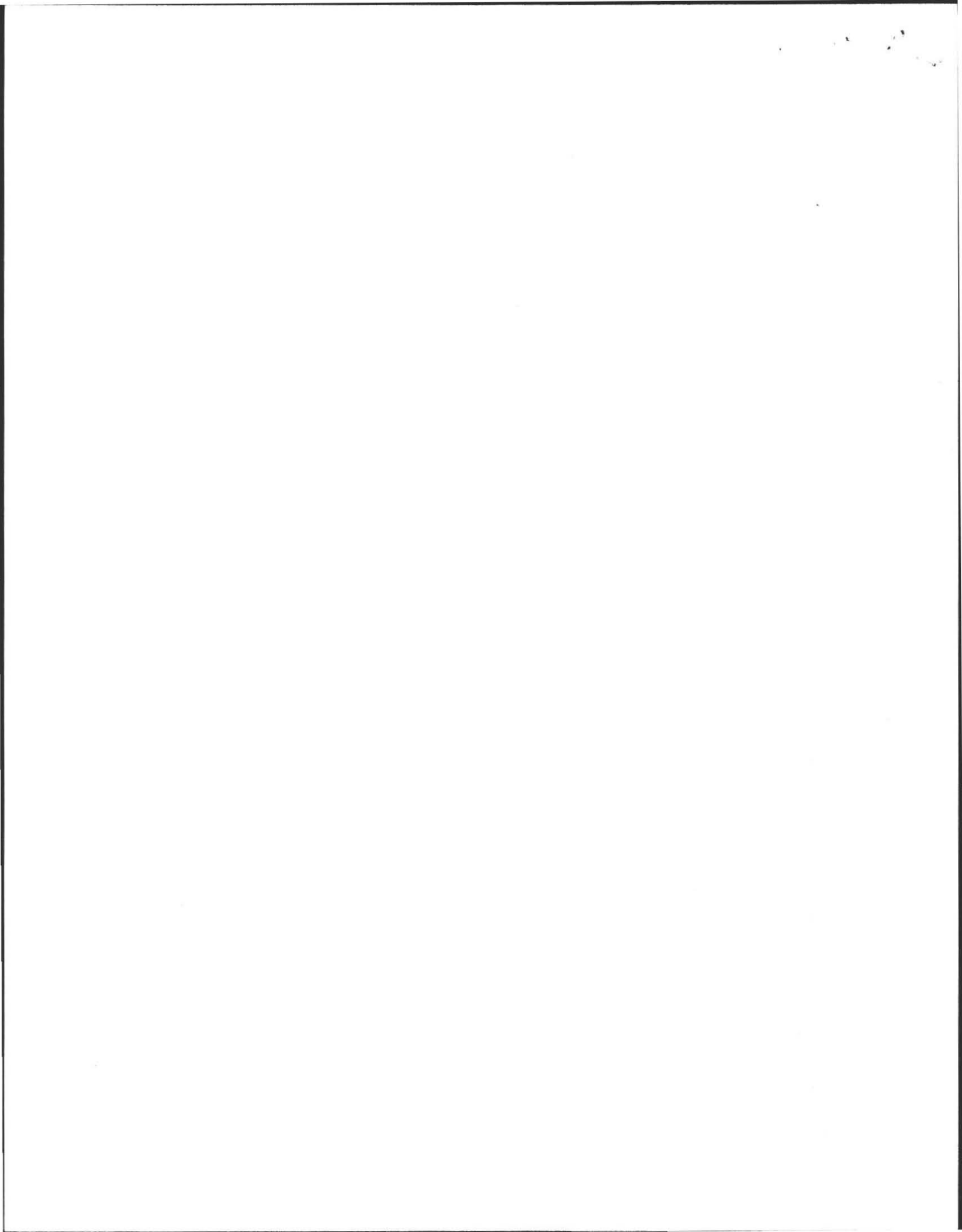
Dear Mr. Bergstrom:

On December 22, 1988, I approved your septic system design for the building that is to be constructed on Route 116. This plan is designed for an office-storage building with ten people working at the site.

I have been informed that you may open the building to the public as a "farm stand". If this is true, please contact your engineer and have him review your septic system design to determine if it is sufficient to accommodate the public usage that is anticipated. If changes are to be made, a new plan must be submitted. Please contact me upon receipt of this letter so that we can be updated on this matter.

Sincerely,

*David E. Zarozinski*  
David E. Zarozinski  
Interim





FEB 07 1989

No. 88-40 Revised

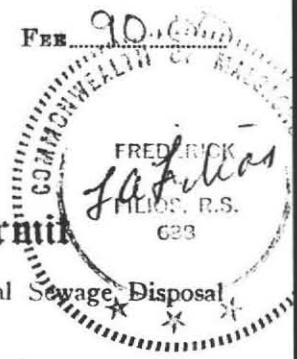
FEB 90

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 ( ) an Individual Sewage Disposal System at:

500 Sunderland Road (Route 116) Red Wing Meadow Farm  
Location - Address or Lot No.

Ken Bergstrom  
Owner Address

James Senn  
Installer Address

Type of Building Dwelling — No. of Bedrooms..... Expansion Attic ( ) Garbage Grinder (NO)  
Size Lot 17 1/2 Acres Sq. feet

Other — Type of Building..... No. of persons 10 Showers ( ) — Cafeteria ( )

Other fixtures.....

\* Design Flow..... gallons per person per day. Total daily flow 439.4 (549.25 in Amh) gallons.

Septic Tank — Liquid capacity 1500 gallons Length 10 1/2 Width 5 Diameter..... Depth 5

Disposal Trench — No. 4 Width 2 Total Length 240 Total leaching area 720 sq. ft. SIDE

Seepage Pit No..... Diameter..... Depth below inlet 1.5 Total leaching area 480 sq. ft. BTM

Other Distribution box ( ) Dosing tank ( )

Percolation Test Results Performed by FILIOS ENTERPRISES, INC. Date 3/10/88

Test Pit No. 1 15 minutes per inch Depth of Test Pit 9 1/2 Depth to ground water 8

Test Pit No. 2..... minutes per inch Depth of Test Pit 10 1/2 Depth to ground water 9

No. 3 2 " " 11 " " NONE

Description of Soil.....

\* DESIGN FLOW: Office Space 113.4 gals + Storage Space (Farm Stand) 126 gals + 10 workers @ 20 gals/day (200 gals) = 439.4 gals + 25.2 = 549.25

Nature of Repairs or Alterations — Answer when applicable.....

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 [Signature] Date.....

Application Approved By..... Date.....

Application Disapproved for the following reasons:..... Date.....

Permit No. 88-40 Issued..... Date.....

Permit No. 88-40 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 (✓) or Repaired ( ) by James Senn

at 500 Sunderland Road (Rte. 116) Red Wing Meadow Farm  
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. 88-40 dated.....

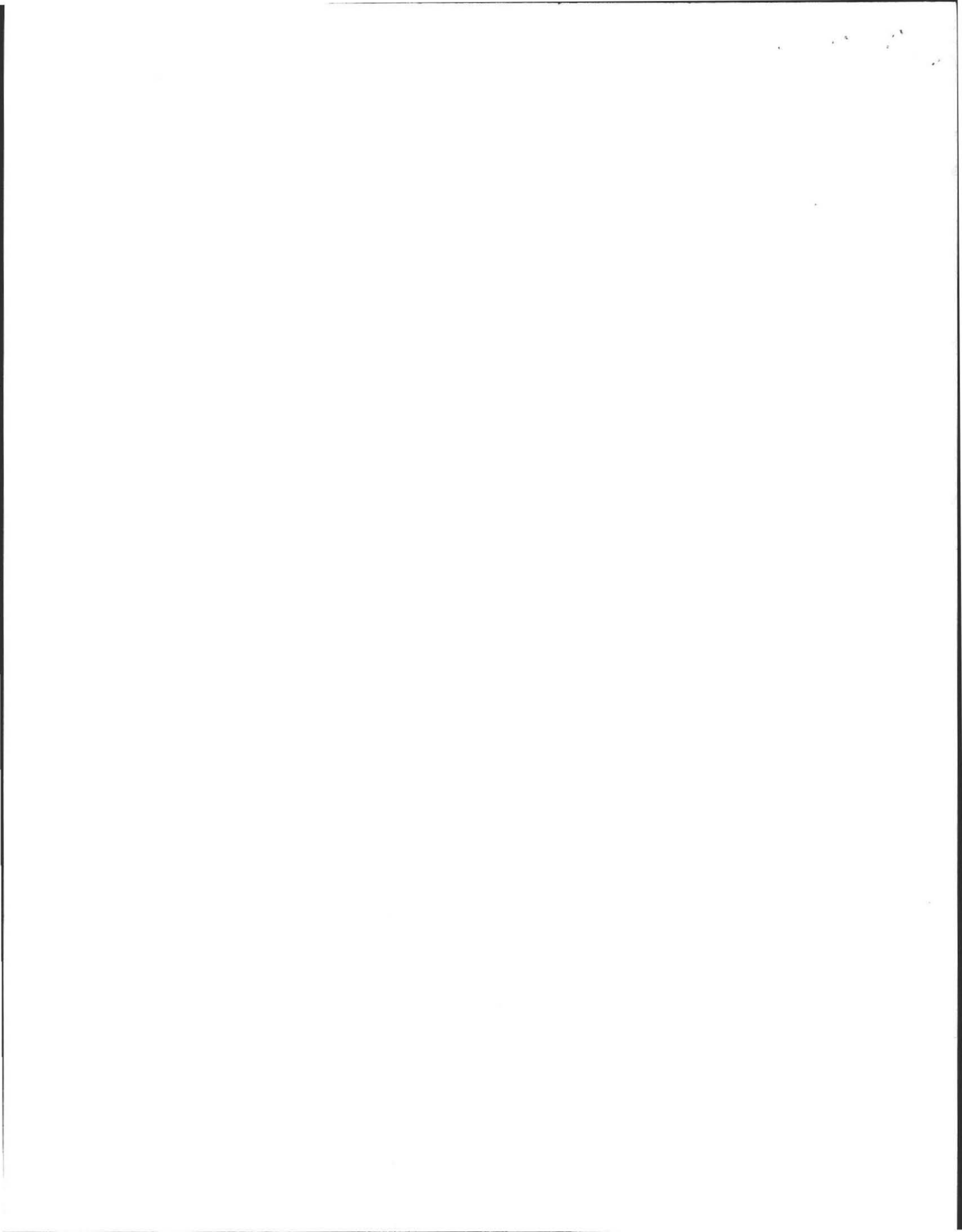
THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.

DATE 6/6/89 Inspector [Signature]

CHECK OR FILL IN WHERE APPLICABLE

GR

FE



# PLAN SHOWING DETAIL OF SEPTIC SYSTEM

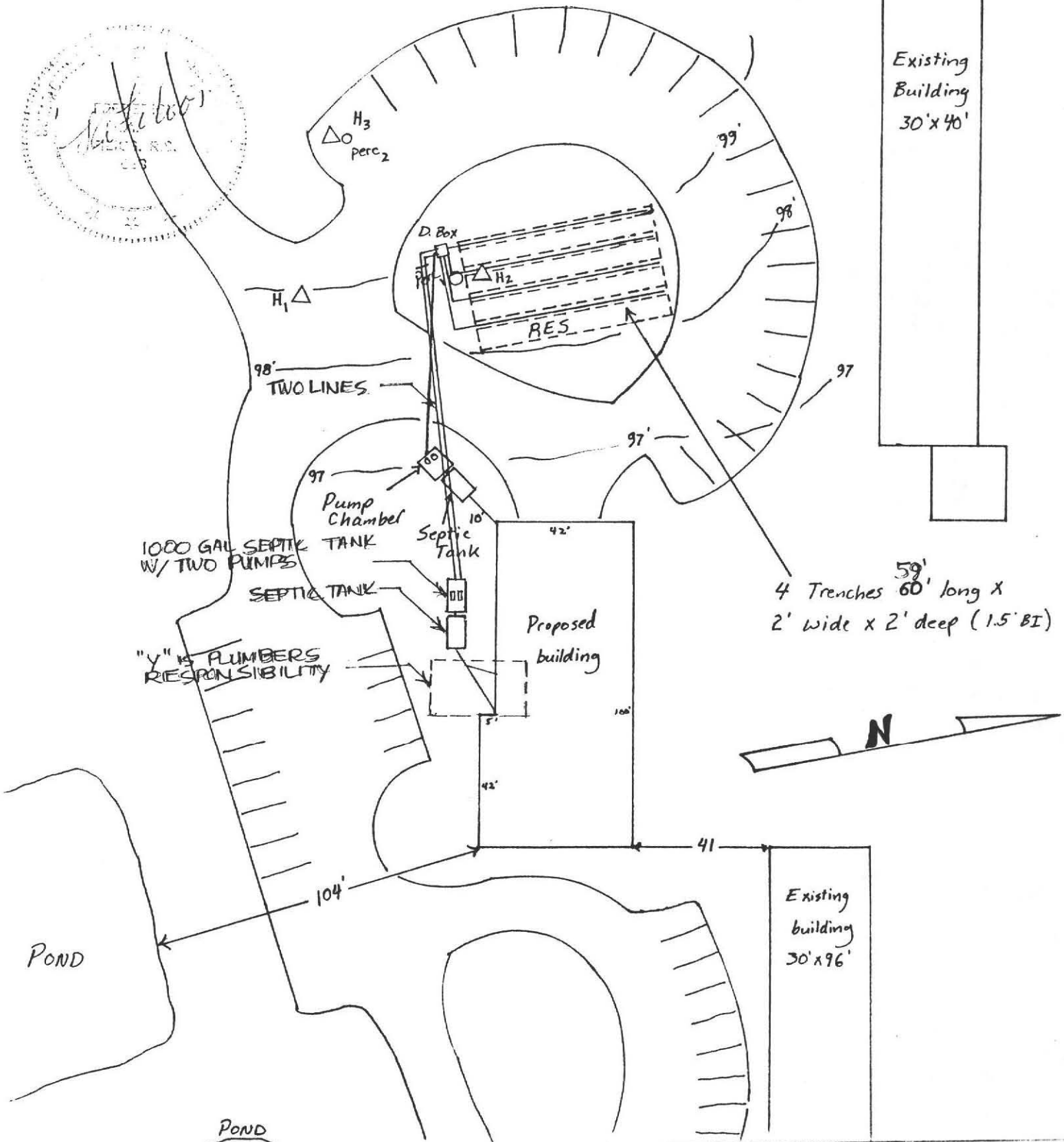
FOR: KEN BERGSTROM  
 RED WING MEADOW FARM  
 AMHERST, MA

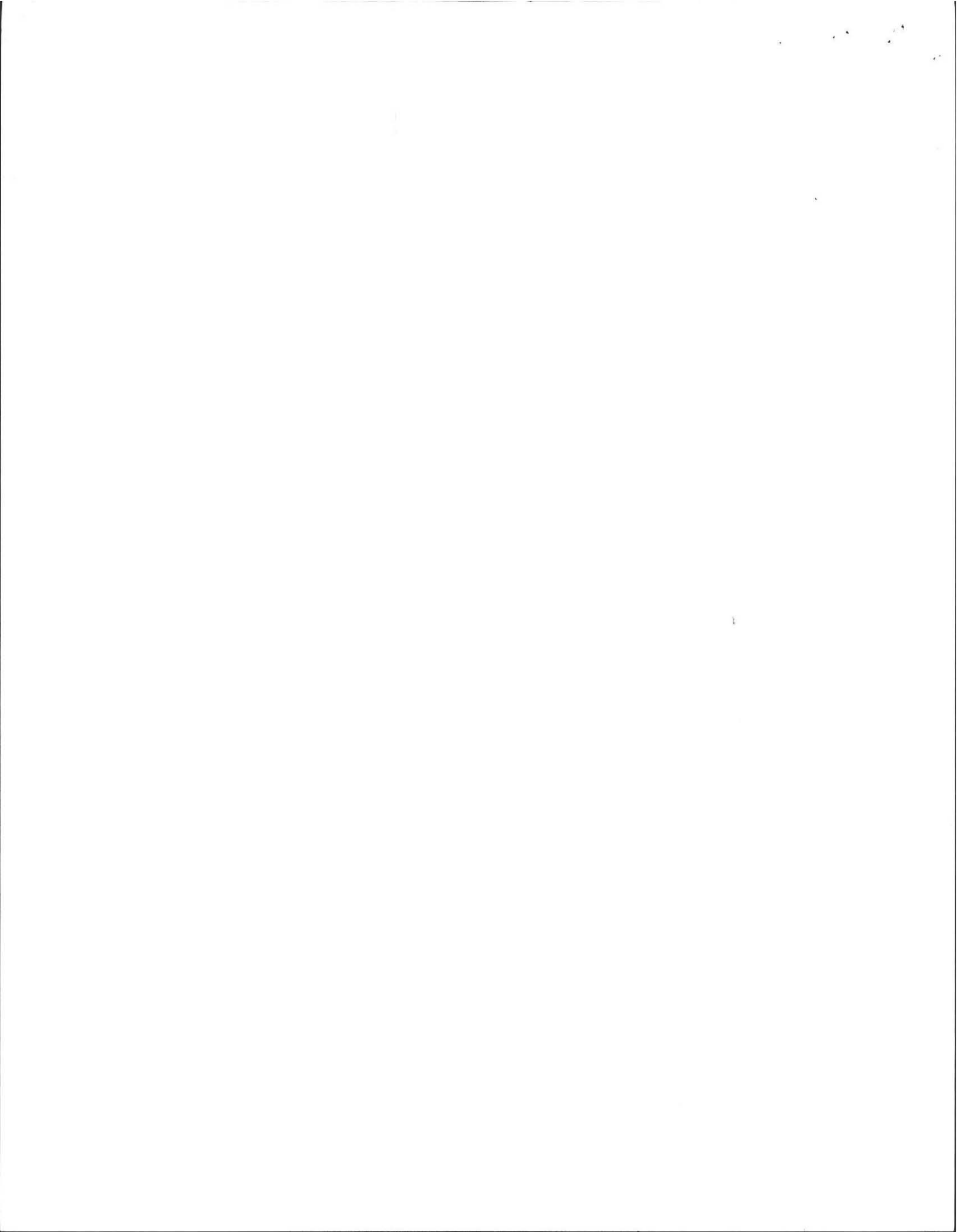
BY: FILIOS ENTERPRISES W.T.  
 69 PELHAM RD.  
 AMHERST, MA

TBM (X) AT: RED WING MEADOW FARM  
 500 SUNDERLAND RD., AMHERST

SCALE: 1" = 40'  
 DATE: DEC. 20, 1988

REVISED: FEB. 3, 1989





FILIOS ENTERPRISES, INC.  
69 Pelham Rd.  
Amherst, MA 01002

June 6, 1989

Ken Bergstrom  
500 Sunderland Road  
Amherst, MA 01002

Dear Mr. Bergstrom,

This is to notify you that Filios Enterprises, Inc. has inspected the septic system installed at:

Red Wing Meadow Farm  
500 Sunderland Road  
Amherst, MA 01002

Unless exceptions are noted below, the system complied with the approved design and elevations.

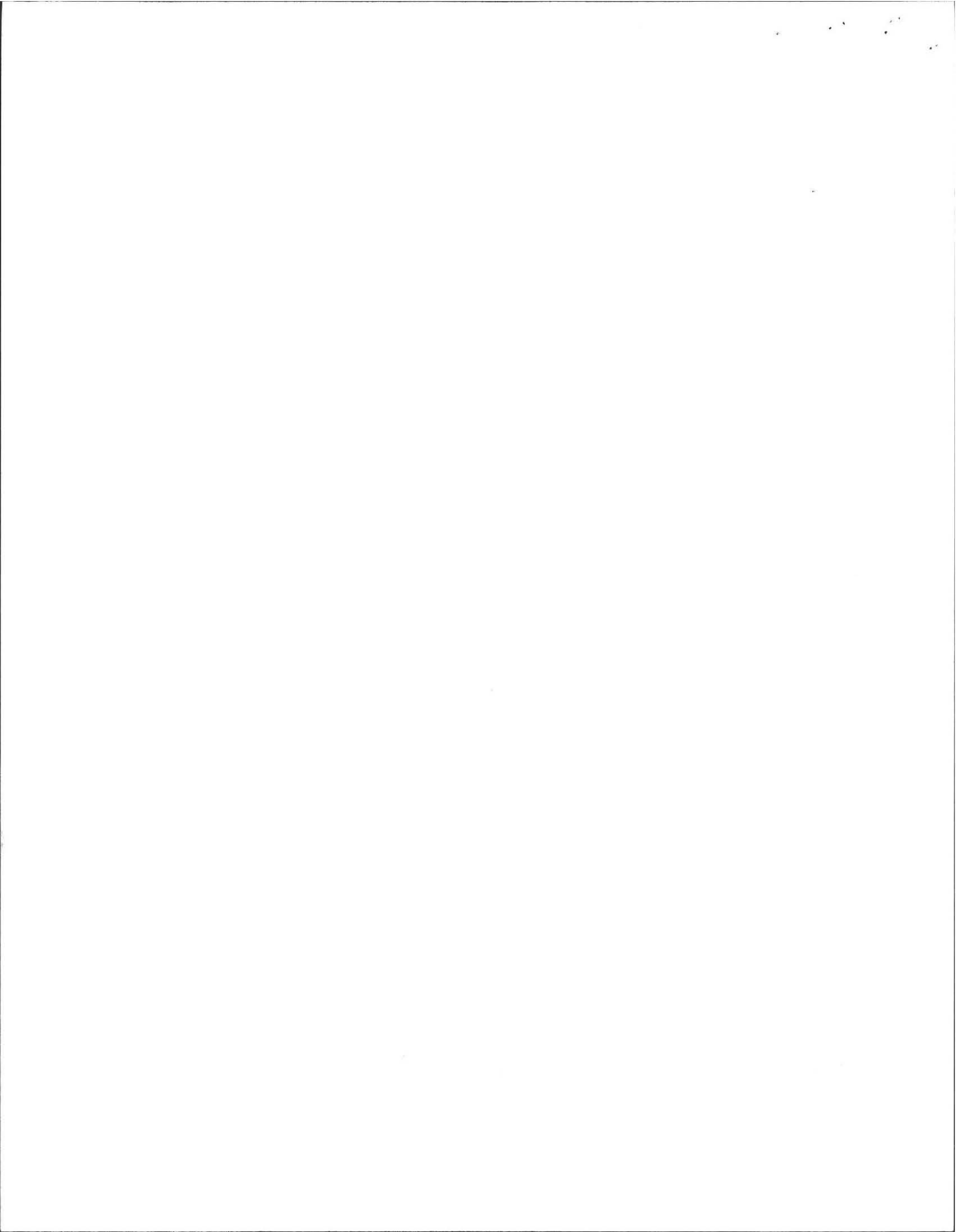
Exceptions:

1. At the time of inspection, building sewer outlet and septic tank were not connected, and it was the installers intent to have a "Y" coming into the septic tank.
2. Pump reservoir was changed from 290 gallons to a 1000 gallon septic tank that will hold 2 pumps, one of which acts as a backup.
3. Two lines now connect the pump chamber and the distribution box. The second line is for the backup pump.
4. The trenches were 59' long rather than 60' long due to the overlapping connections. System still meets the design requirements.
5. The elevations of the as-built system vary from those of the design as shown in red on the copy of the profile enclosed.

Sincerely,

*Frederick A. Filios*  
(Frederick A. Filios)

C.C. to Board of Health



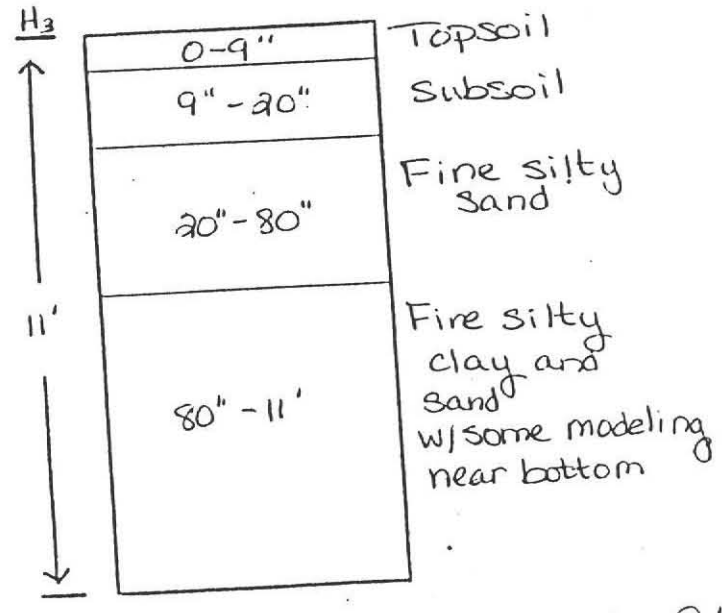
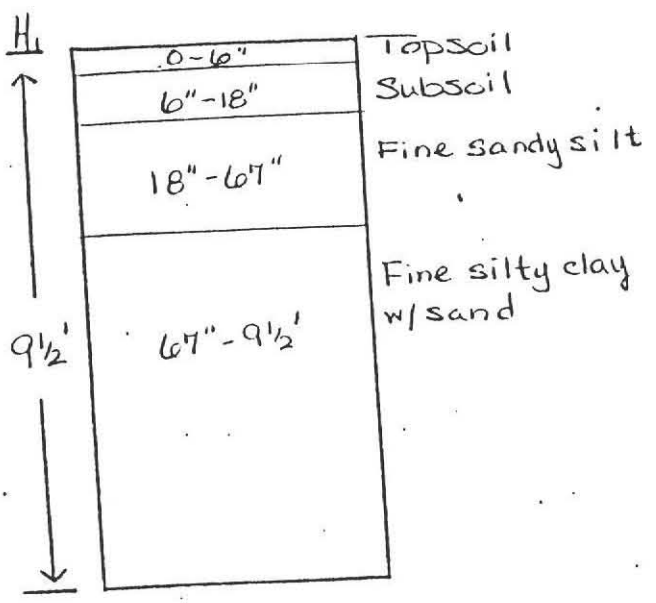
Ken Bergstrom

DATE 5/10/68

OBSERVER FILIOS Enterprises Inc.

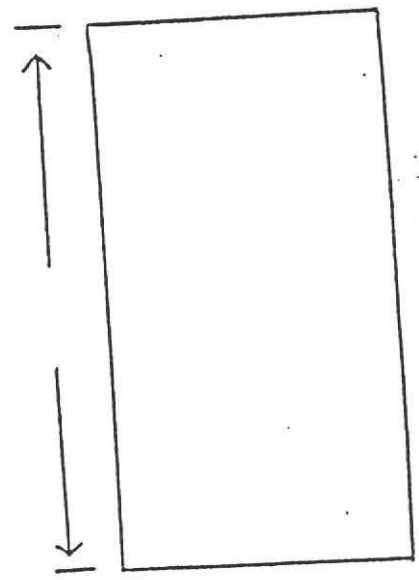
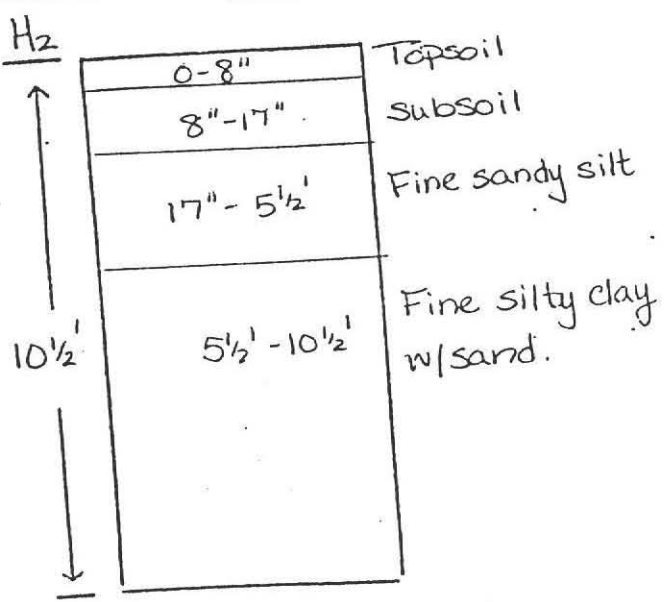
LOCATION Red Wing Meadow Farm  
Amherst, MA

B of H Dennis Pinski



GROUND WATER 8'

GROUND WATER none weak oxides @ 6'



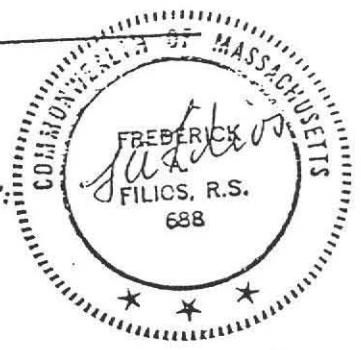
GROUND WATER 9'

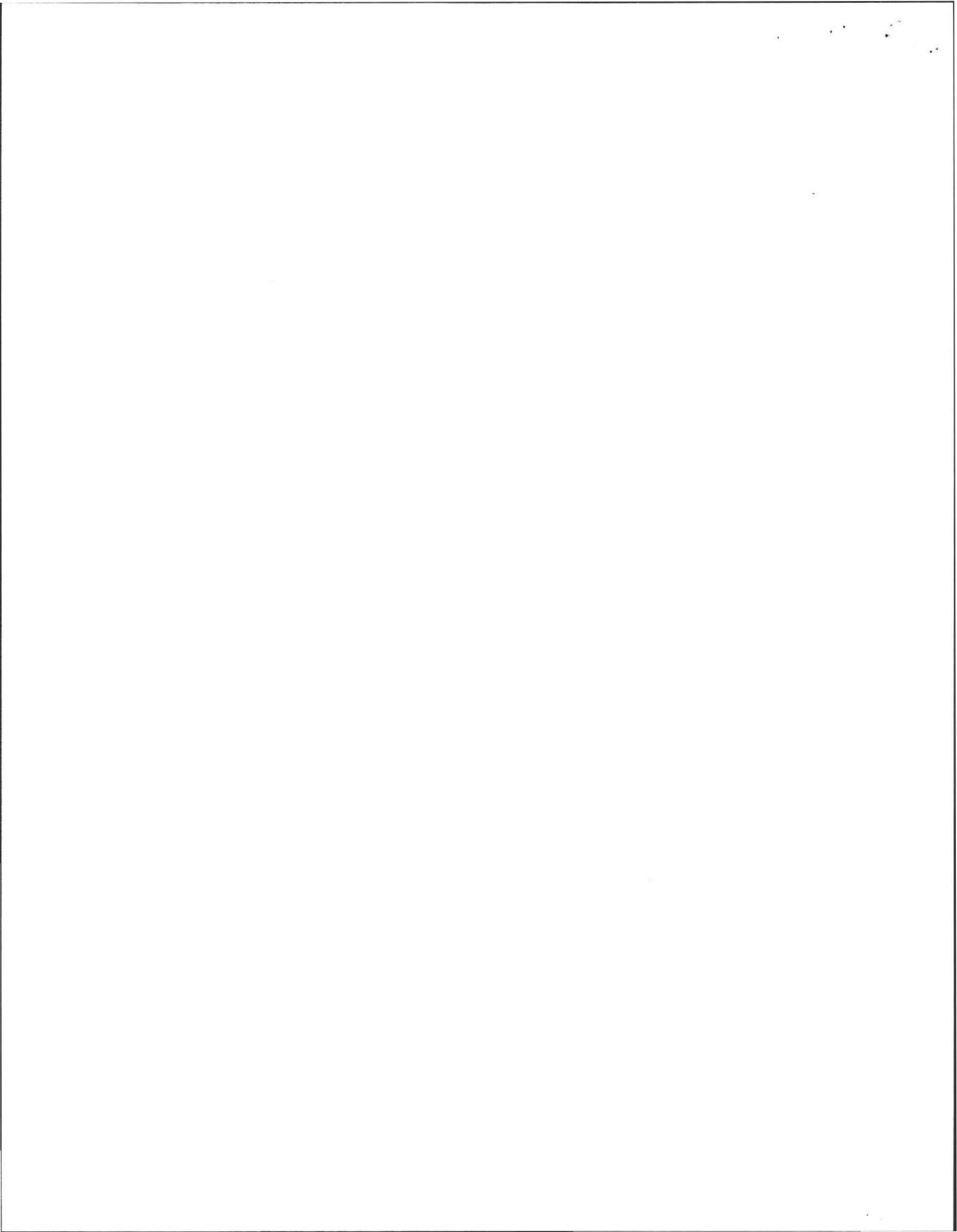
GROUND WATER \_\_\_\_\_

1. PERCOLATION RATE AT 5' : (near H1)

11 min./inch

2. Perc Rate at 43" : (near H3)  
2 min/inch







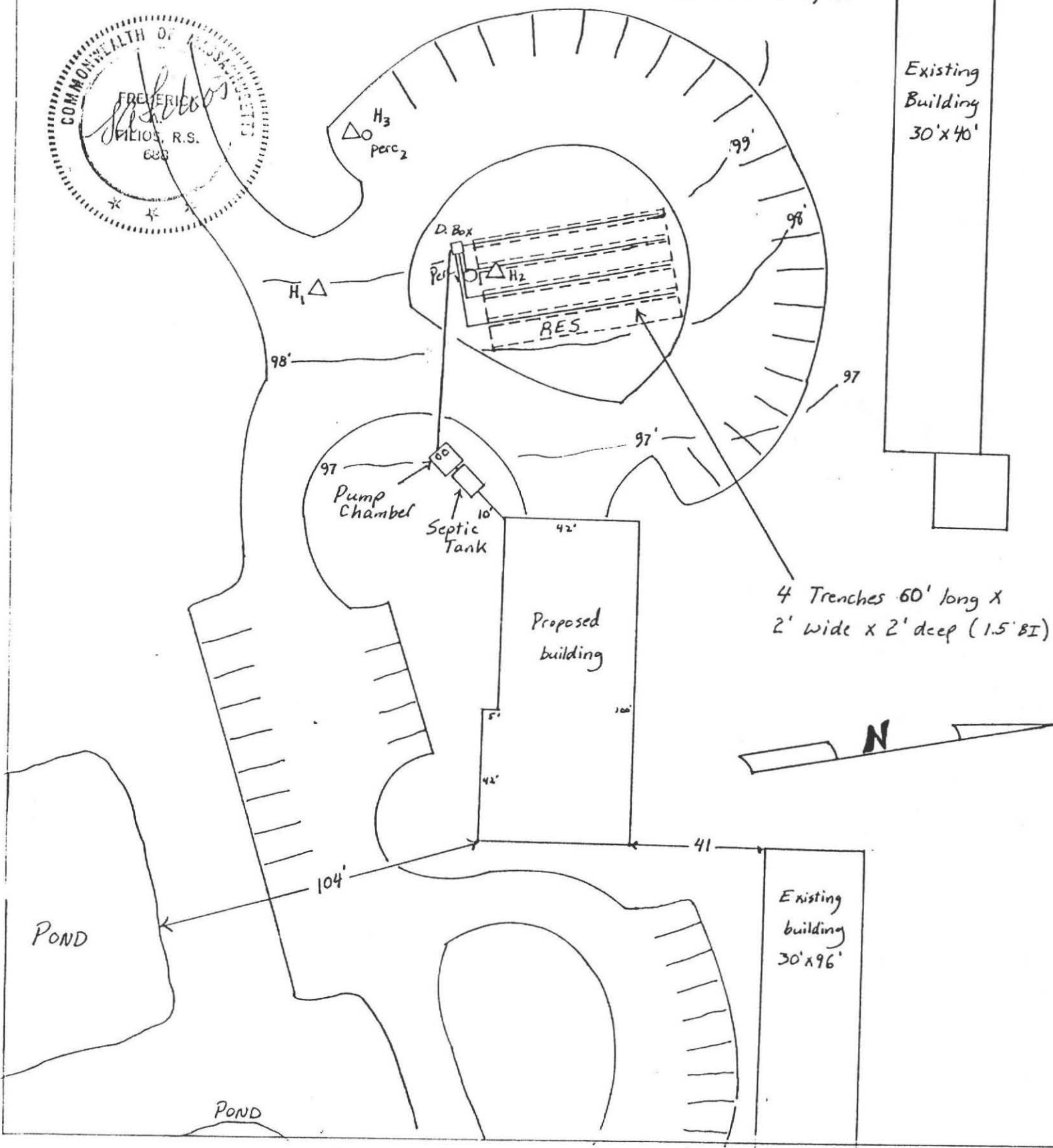
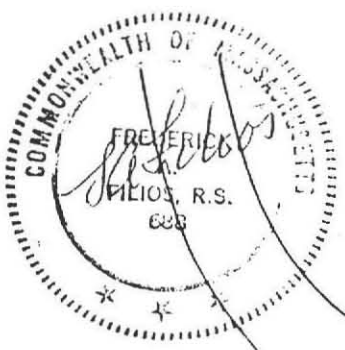
TBM (R)

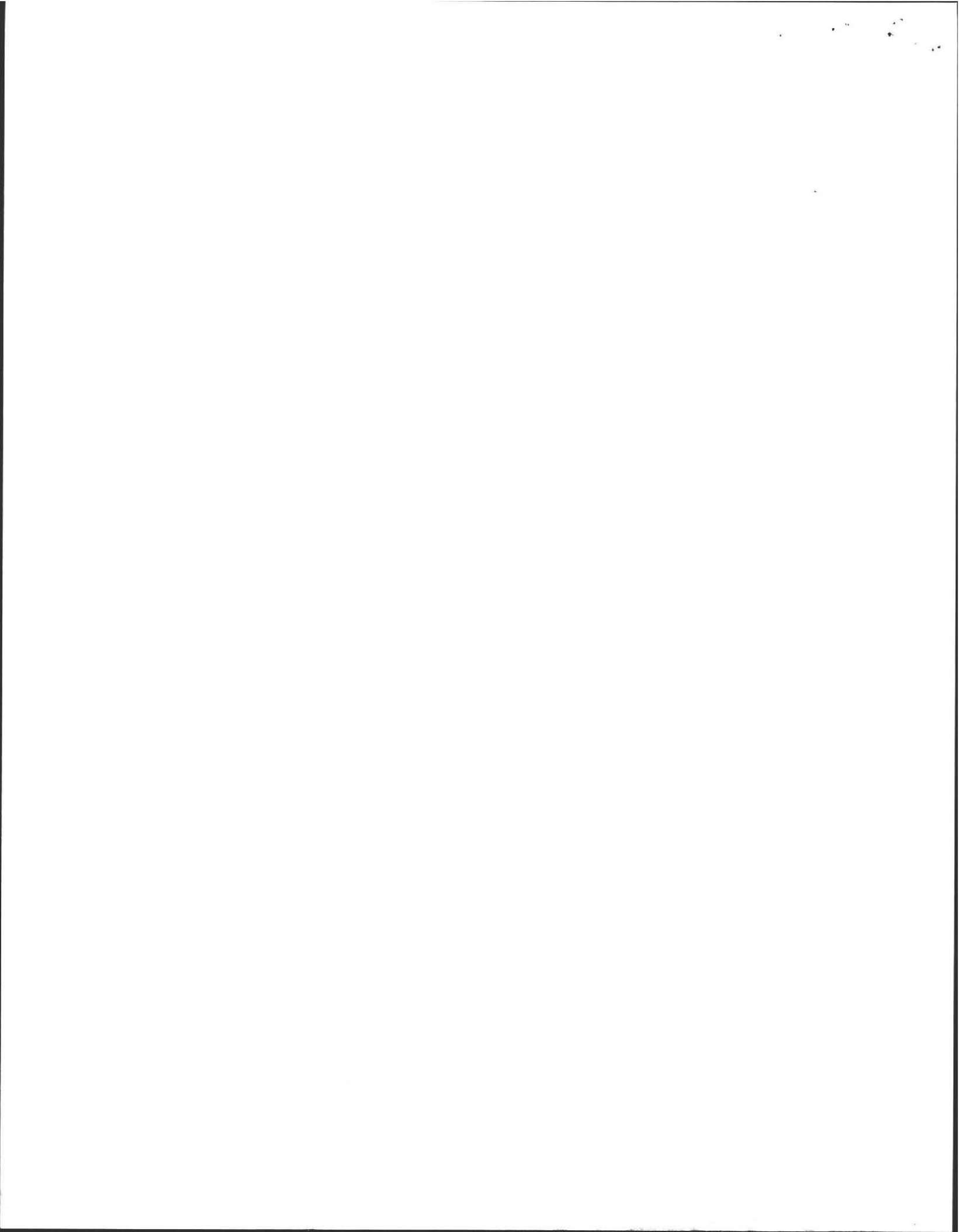
RED WING MEADOW FARM  
AMHERST, MA

AT: RED WING MEADOW FARM  
500 SUNDERLAND RD., AMHERST

VI. PAUL FINEARTS W.T.  
69 PELHAM RD.  
AMHERST, MA  
SCALE: 1" = 40'  
DATE: DEC. 20, 1988

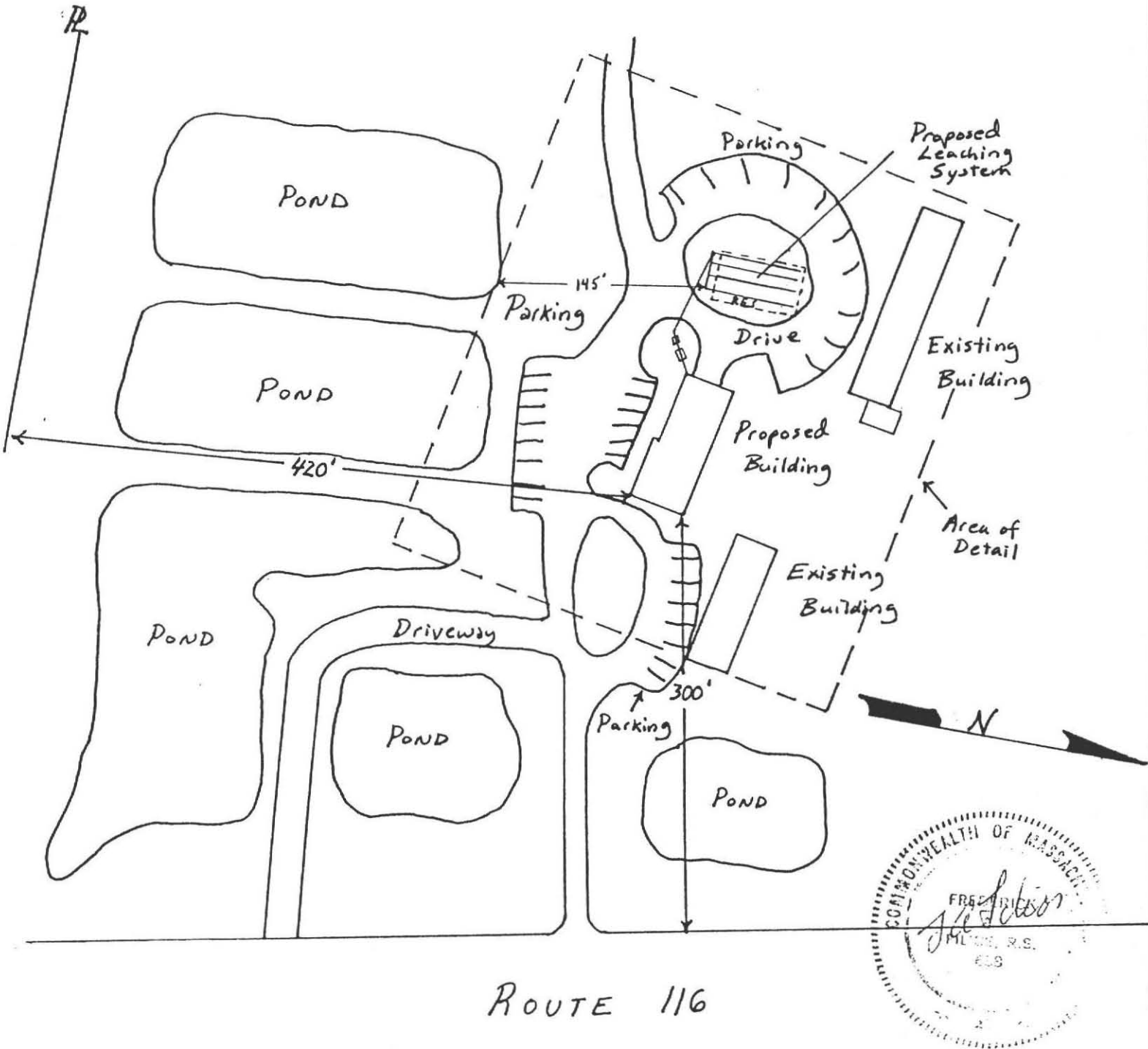
REVISED: FEB. 3, 1989

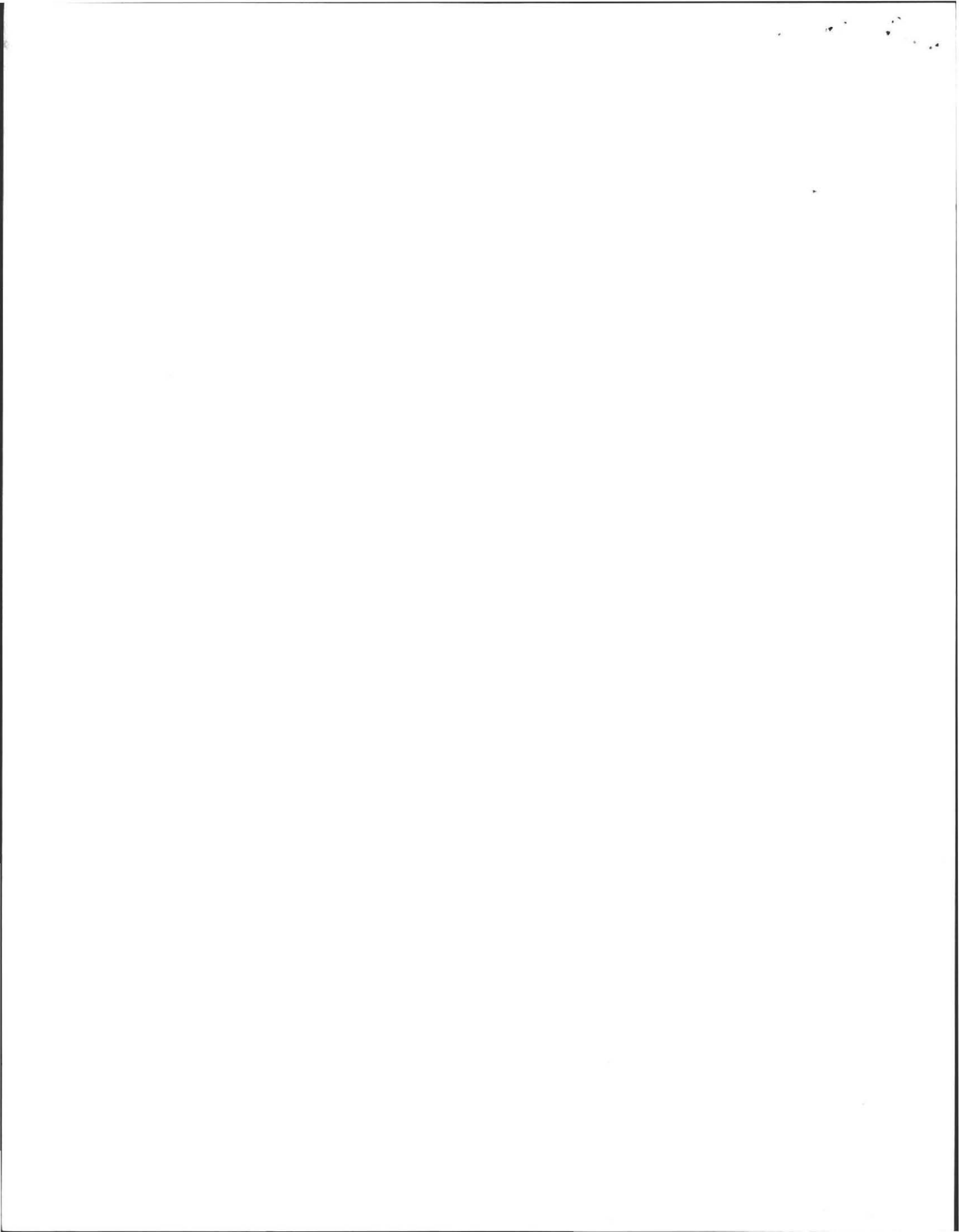




FOR: KEN BERGSTROM  
RED WING MEADOW FARM  
AMHERST, MA.  
AT: RED WING MEADOW FARM  
500 SUNDERLAND RD.  
AMHERST, MA.

BY: FILIOS ENTERPRISES, INC.  
69 PELHAM RD.  
AMHERST, MA  
SCALE: 1" = 100'  
DATE: DECEMBER 20, 1988  
REVISED: FEBRUARY 3, 1989





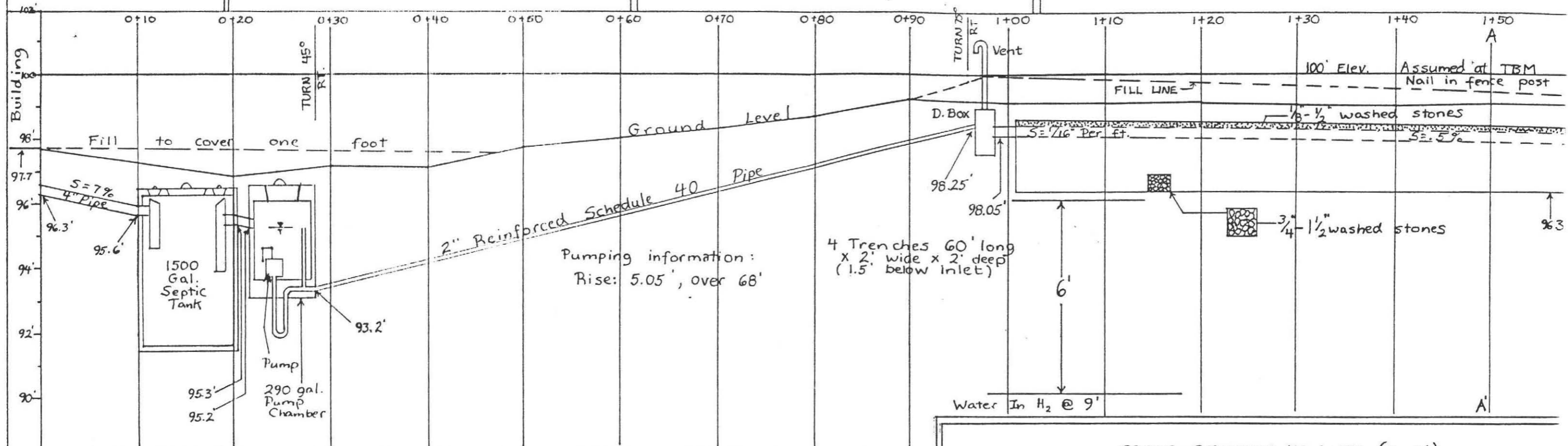
PLAN SHOWING  
PROFILE  
OF  
SEPTIC SYSTEM

FOR: KEN BERGSTROM  
RED WING MEADOW FARM  
500 SUNDERLAND ROAD  
AT: SAME

FEB 07 1989

BY: FILIOS ENTERPRISES  
69 PELHAM ROAD  
AMHERST, MA W.T.  
PHONE: 256-8008

SCALE: HORIZONTAL: 1" = 10'  
VERTICAL: 1" = 3'  
DATE: DECEMBER 20, 1988  
REVISED: FEBRUARY 3, 1989



Pumping information:  
Rise: 5.05', over 68'

4 Trenches 60' long  
x 2' wide x 2' deep  
(1.5' below inlet)

CONSTRUCTION NOTES

1. Tank should be inspected and pumped at least every second year.
2. The inlet tee of the septic tank should extend 10" below flow line. The outlet tee should extend 14".
3. The pipe should remain level for 2' after exiting the D. Box.
4. All topsoil should be removed to a distance of 10' around system where fill is to be used.

CALCULATIONS

Perc Rate = 15 min/inch  
Office Space: 36' x 42' = 1512 Sq. ft. x 75 gal/1000 Sq. ft. = 113.4 gals  
Storage Space & Farm Stand: 60' x 42' = 2520 Sq. ft. x 5 gal/100 Sq. ft. = 126 gal.  
10 Workers x 20 gals/day = 200 gals  
TOTAL: 113.4 + 126 + 200 x 1.25 = 549.25 gals.  
4 Trenches 60' long x 2' wide x 2' deep (1.5' B.I.)  
Sides: 4 x 60' x 2' x 1.5' = 720 x .66 = 475.2 gals  
Btm.: 4 x 60' x 2' = 480 x .43 = 206.4 gals  
TOTAL = 681.6 gallons

SPECIFICATIONS

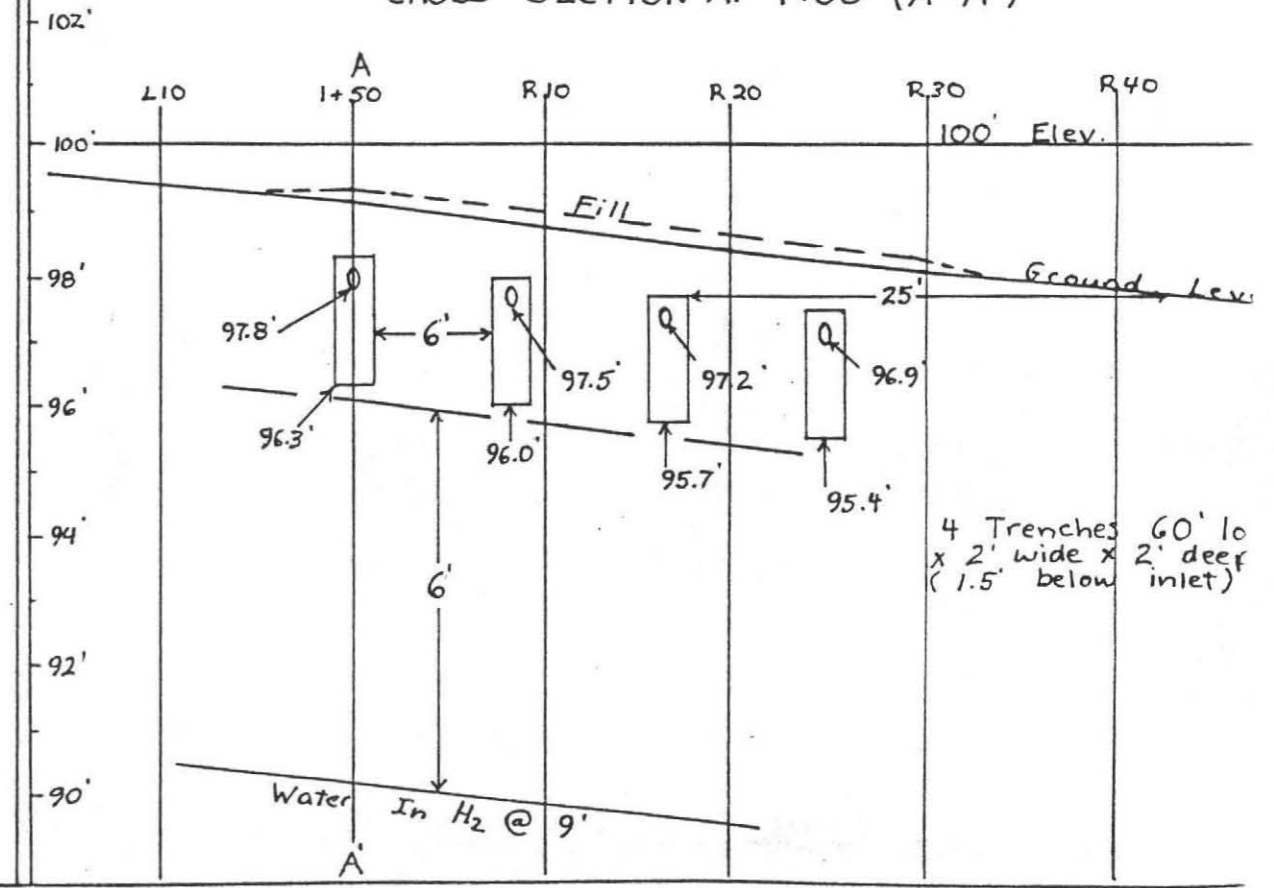
ALL MATERIALS AND CONSTRUCTION MUST BE IN ACCORDANCE WITH THE COMM. OF MASS. D.E.Q.E. STATE ENVIRONMENTAL CODE TITLE

PUMP INFORMATION

1 Pump  
Min. pump capacity:  
480 Sq. ft. x .083 = 39.84 cubic ft.  
39.84 cubic ft. x 7.48 gal/cubic ft. = 298 gallons  
298 gal/15 min = 19.8 gallons  
Suggested Pump:  
5' head, 20 gal./min.



CROSS-SECTION AT 1+50 (A-A')





JUN 20 1994

**MIKE R. MORAWSKI, JR.**  
EXCAVATING CONTRACTOR  
P.O. BOX 86  
SOUTH DEERFIELD, MASSACHUSETTS 01373  
(413)665-4654

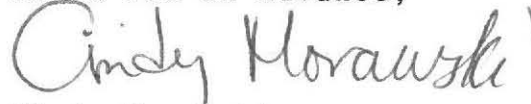
TO: Amherst Board of Health  
FROM: DEERFIELD SEPTIC SERVICE  
RE: Septage Haulers/Disposal Permit

Mike Morawski, Jr., has recently purchased a truck to pump septic systems. He currently holds a permit to install and repair systems in Amherst and is now requesting a permit to pump and dispose septage.

I am enclosing a check for the permit fee, with hopes of quickening the process. I have spoken to Dave in Inspections, and Mike will be arranging a time so that Dave can inspect the pump truck.

If contact is needed with Mike, please call or write to him at the above phone number or address.

Thank You in Advance,



Cindy Morawski

