

No. 00-00  
Revised

FEE Mc

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

Application for a Permit to Construct ( ) Repair ( ) Upgrade ( ) Abandon ( ) -  Complete System  Individual Components



Location <u>Cherry Hill Golf Club</u>	Owner's Name <u>% Peter Westover</u>
Map/Parcel# <u>323 Montague Road</u>	Address <u>Conservation Dept. Amherst</u>
Lot#	Telephone# <u>256-1213</u>
Installer's Name <u>Haris</u>	Designer's Name <u>Alan Weiss RS.</u>
Address <u>327 River Drive</u>	Address <u>350 Old Enfield Rd. Belchertown</u>
Telephone# <u>545-5396</u>	Telephone# <u>413-323-5957</u>

Type of Building GOLF CLUB Lot Size \_\_\_\_\_ sq. ft.

Dwelling - No. of Bedrooms \_\_\_\_\_ Garbage grinder ( )

Other - Type of Building \_\_\_\_\_ No. of persons \_\_\_\_\_ Showers ( ), Cafeteria ( )

Other Fixtures 50 Lockers/showers + 20 seat Snook bar

Design Flow (min. required) 1200 gpd Calculated design flow 1665 Design flow provided \_\_\_\_\_ gpd

Plan: Date 4/27/00 Number of sheets 4 Revision Date \_\_\_\_\_

Title SEPTIC REPAIR PLAN

Description of Soil(s) CLASS I: MED. - (COARSE SAND) to 120"

Soil Evaluator Form No. \_\_\_\_\_ Name of Soil Evaluator A. Weiss Date of Evaluation 12/15/99

DESCRIPTION OF REPAIRS OR ALTERATIONS New s tank + L. field.

The undersigned agrees to install the above described Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and further agrees to not to place the system in operation until a Certificate of Compliance has been issued by the Board of Health.

Signed Peter Westover Date 4/29/00

Inspections \_\_\_\_\_

No. 00-00  
Revised

FEE 100.00

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

CERTIFICATE OF COMPLIANCE

Description of Work:  Individual Component(s)  Complete System

The undersigned hereby certify that the Sewage Disposal System; Constructed ( ), Repaired ( ), Upgraded ( ), Abandoned ( )

by: Haris

at 323 Montague Rd

has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. \_\_\_\_\_ dated \_\_\_\_\_ Approved Design Flow \_\_\_\_\_ (gpd)

Installer Haris Site Works John Mitchell

Designer: Alan Weiss Inspector: Alan Weiss Date: 3/29/01

The issuance of this permit shall not be construed as a guarantee that the system will function as designed.

No. 00-00  
Revised

FEE 100.00

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permission is hereby granted to; Construct ( ) Repair ( ) Upgrade ( ) Abandon ( ) an individual sewage disposal system at 323 Montague as described in the application for

Disposal System Construction Permit No. 00-00, dated 4/29/00

Provided: Construction shall be completed within three years of the date of this permit. All local conditions must be met.

Date 4/29/00 Board of Health Alan Weiss

00-0000

COMMISSIONER OF HEALTH

NEW YORK

APPLICATION FOR LICENSE

Name	John J. Smith
Address	123 Main St, New York, N.Y.
Business	Druggist
Capital	\$10,000
Assets	\$20,000
Liabilities	\$5,000

The undersigned hereby certifies that the above named person is a resident of this State and is qualified to engage in the business of a druggist.

Witness my hand and seal of office this 1st day of January, 1912.

Commissioner of Health

The undersigned hereby certifies that the above named person is a resident of this State and is qualified to engage in the business of a druggist.

Witness my hand and seal of office this 1st day of January, 1912.

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Commissioner of Health



ALAN E. WEISS, M.S., L.S.P.

Licensed Site Professional  
Registered Sanitarian  
Hydrogeologist  
President

- Subsurface Investigations
- 21E Site Investigations
- Pollution Remediation
- Percolation Tests and Septic Designs

350 Old Enfield Rd.  
Belchertown, MA 01007  
(413) 323-5957 & 323-4916 (FAX)

*Decided using  
weir, vt.  
utility crime Service*

Date: ~~12/15/99~~ 12/15/99

Commonwealth of Massachusetts  
 AmHERST, Massachusetts  
Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weiss

Date: 12/15/99

Witnessed By: D. ZARZINSKI

Location Address or Lot # <b>Cherry Hill Golf Club MONTAGUE RD (Rte 63) AMHERST.</b>	Owner's Name, Address, and Telephone # <b>TOWN OF Amherst Conservation Dept. TOWN Hall Amherst, MA. 256-4045 01002</b>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

Office Review

Published Soil Survey Available: No  Yes

Year Published **1989** Publication Scale **1:75,000**

Soil Map Unit **MeB**

Drainage Class **RAPID** Soil Limitations **N/A.**

Surficial Geologic Report Available: No  Yes

Year Published \_\_\_\_\_ Publication Scale \_\_\_\_\_

Geologic Material (Map Unit) \_\_\_\_\_

Landform \_\_\_\_\_

Flood Insurance Rate Map:

Above 500 year flood boundary No  Yes

Within 500 year flood boundary No  Yes

Within 100 year flood boundary No  Yes

Wetland Area:

National Wetland Inventory Map (map unit) \_\_\_\_\_

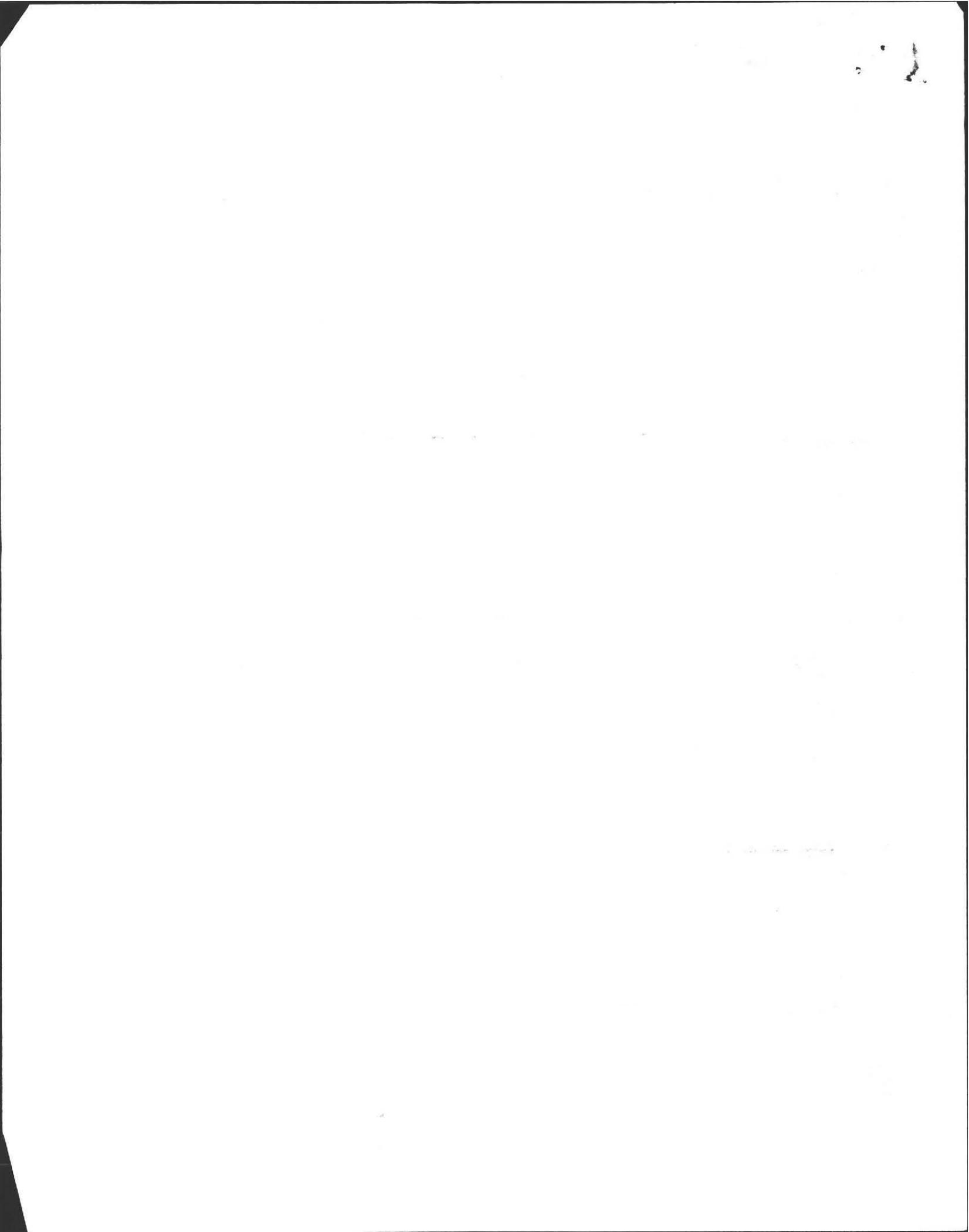
Wetlands Conservancy Program Map (map unit) \_\_\_\_\_

Current Water Resource Conditions (USGS): Month \_\_\_\_\_

Range :Above Normal  Normal  Below Normal

Other References Reviewed: \_\_\_\_\_





FORM 12 - PERCOLATION TEST

Location Address or Lot No. CHERRY HILL GOLF CLUB  
MONTAGUE RD,

COMMONWEALTH OF MASSACHUSETTS

AMELOR ST, Massachusetts

Percolation Test*		
Date: <u>12/15/99</u>		Time: <u>9:00</u>
Observation Hole #	<u>P<sub>3</sub></u>	<u>P<sub>2</sub></u>
Depth of Perc	<u>40"</u>	<u>48"</u>
Start Pre-soak	<u>10:00</u>	<u>9:53</u>
End Pre-soak	<u>10:01</u>	<u>9:34</u>
Time at 12"	<u>10:01</u>	<u>9:34</u>
Time at 9"	<u>10:02</u>	<u>9:35</u>
Time at 6"	<u>10:03</u>	<u>9:36</u>
Time (9"-6")	<u>&lt;2</u>	<u>&lt;2</u>
Rate Min./Inch	<u>&lt;2</u>	<u>&lt;2</u>

CAUTION  
 HOLD #20  
 ↓ ↓

\* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

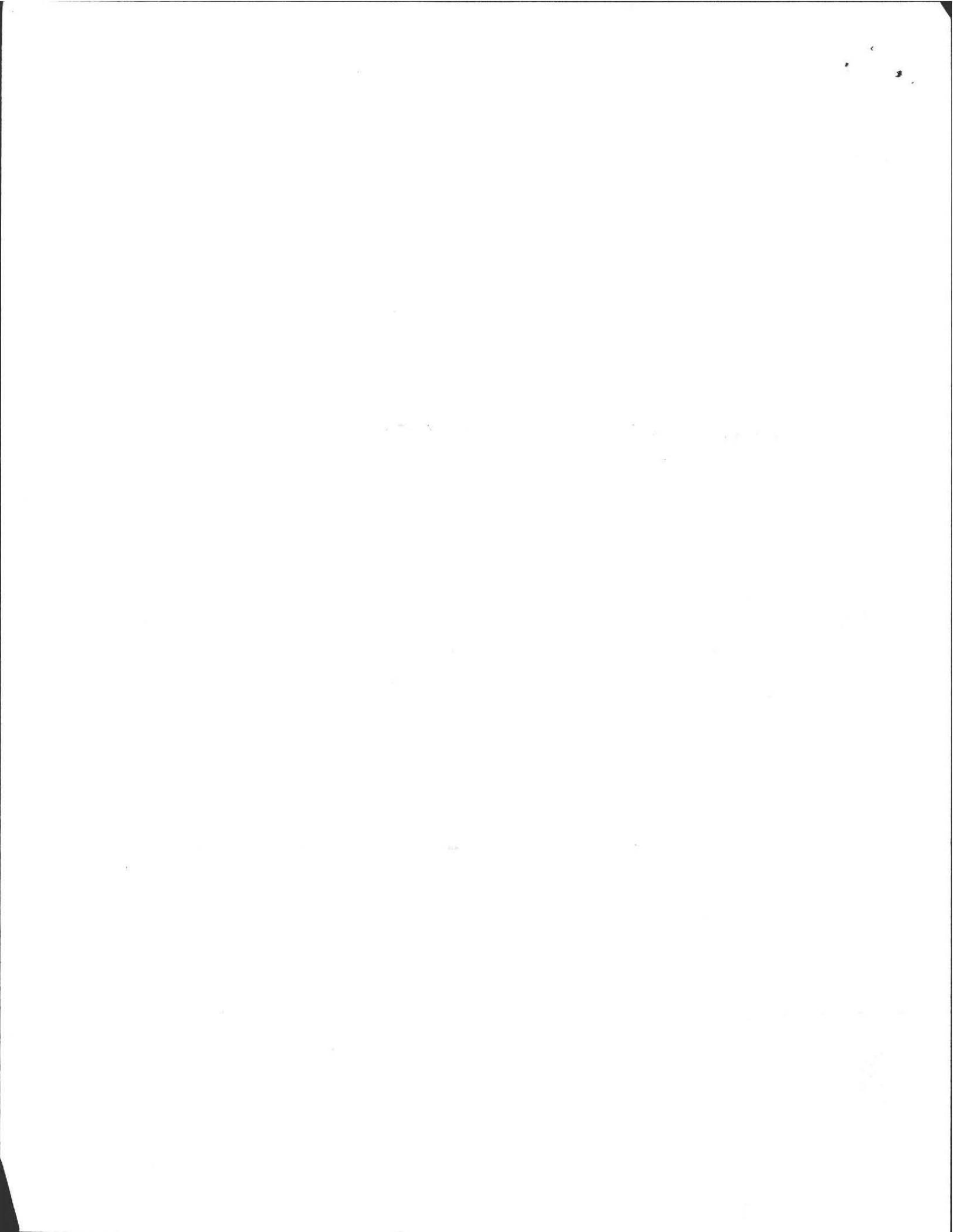
Site Passed  Site Failed

Performed By: A. WEISS

Witnessed By: D. ZAROZINSKI

Comments: 5' SEPARATION RULE





Location Address or Lot No. CHERRY HILL GOLF CLUB  
MONTAGUE RD.

On-site Review

Deep Hole Number TP-3+2 Date: 12/15/99 Time: 9:00 Weather SUN + 70°F

Location (identify on site plan) \_\_\_\_\_

Land Use Country Club Slope (%) 3 Surface Stones Few

Vegetation Grasses

Landform KAME TERRACE / KAME DELTA

Position on landscape (sketch on the back) \_\_\_\_\_

Distances from:

Open Water Body 100' + feet      Drainage way 100' + feet  
Possible Wet Area 100' + feet      Property Line 50' feet  
Drinking Water Well 100' + feet      Other \_\_\_\_\_

DEEP OBSERVATION HOLE LOG\*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
<sup>-3</sup> 0-16"	A+B	FSL	10YR3/2		friable, very.
16"-120"	C	S	10YR4/4	Not obs	COARSE SAND, well sorted, loose, 20% Gravel
<sup>-2</sup> 0-16"	A+B	FSL	10YR3/2	↓	SIMILAR Lithology TO TP-3 (above)
16"-120"	C	S	10YR4/4	↓	

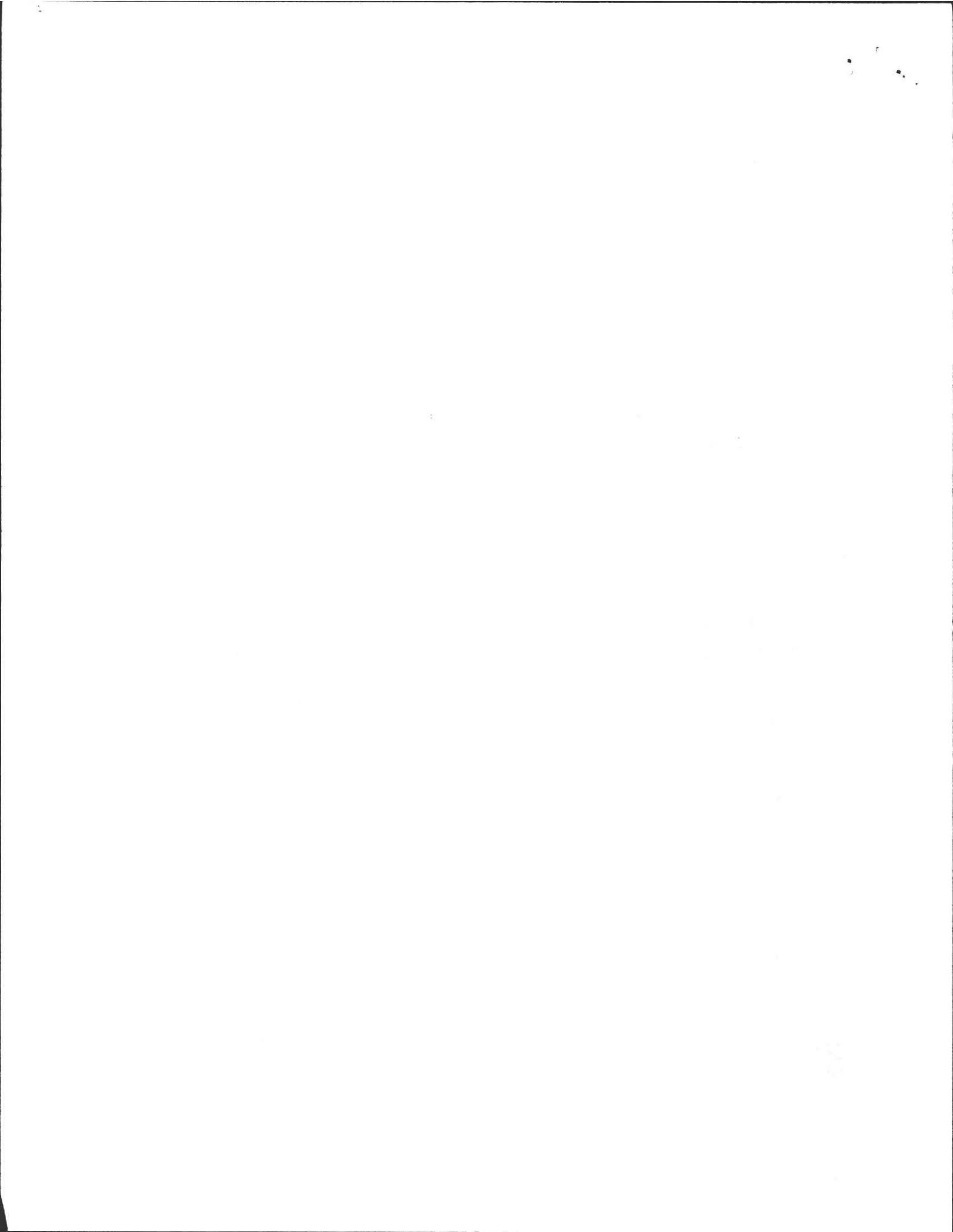
\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) OUTWASH      Depth to Bedrock: 120" +

Depth to Groundwater: Standing Water in the Hole: not obs.      Weeping from Pit Face: Not obs.

Estimated Seasonal High Ground Water: 120" +





Location Address or Lot No. CHERRY HILL GOLF CLUB  
MONTAENE RD.

Determination for Seasonal High Water Table

Method Used:

- Depth observed standing in observation hole ..... inches
- Depth weeping from side of observation hole ..... inches
- Depth to soil mottles 120" inches
- Ground water adjustment ..... feet

Index Well Number ..... Reading Date ..... Index well level ...  
 Adjustment factor ..... Adjusted ground water level .....

Depth of Naturally Occurring Pervious Material

Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

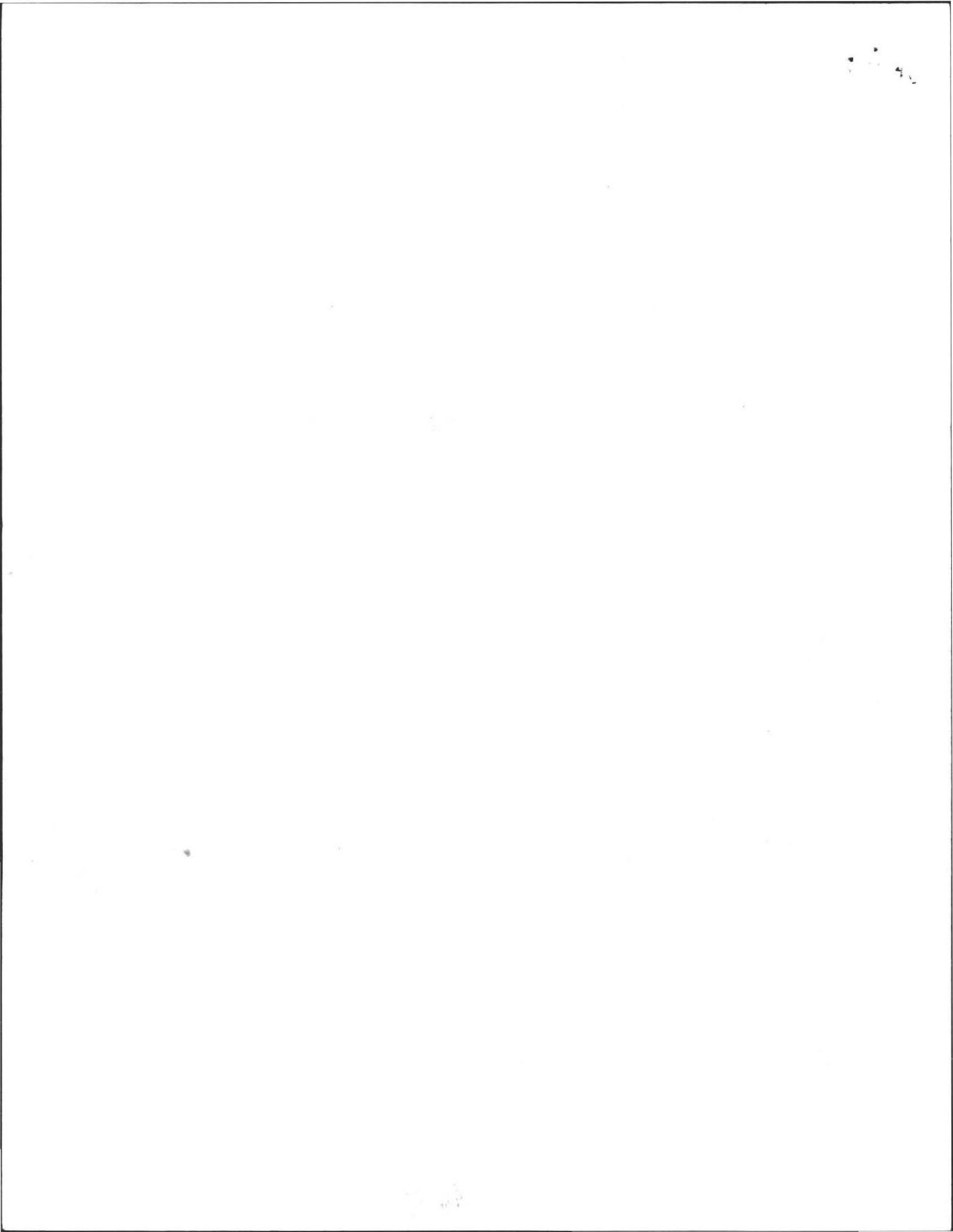
If not, what is the depth of naturally occurring pervious material? \_\_\_\_\_

Certification

I certify that on JUNE, 95 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Signature Alan E. Weiss Date 12/15/99





No. \_\_\_\_\_

No Charge

Date: 12-16-99

Commonwealth of Massachusetts  
Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: AL Weis

Date: 12-16-99

Witnessed By: David Zarnick

Location Address or Lot # <u>Montague Road</u>	Owner's Name, Address, and Telephone # <u>Town of Amherst Golf Course</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

Office Review

Published Soil Survey Available: No  Yes

Year Published \_\_\_\_\_ Publication Scale \_\_\_\_\_ Soil Map Unit \_\_\_\_\_

Drainage Class \_\_\_\_\_ Soil Limitations \_\_\_\_\_

Surficial Geologic Report Available: No  Yes

Year Published \_\_\_\_\_ Publication Scale \_\_\_\_\_

Geologic Material (Map Unit) \_\_\_\_\_

Landform \_\_\_\_\_

Flood Insurance Rate Map:

Above 500 year flood boundary No  Yes

Within 500 year flood boundary No  Yes

Within 100 year flood boundary No  Yes

Wetland Area:

National Wetland Inventory Map (map unit) \_\_\_\_\_

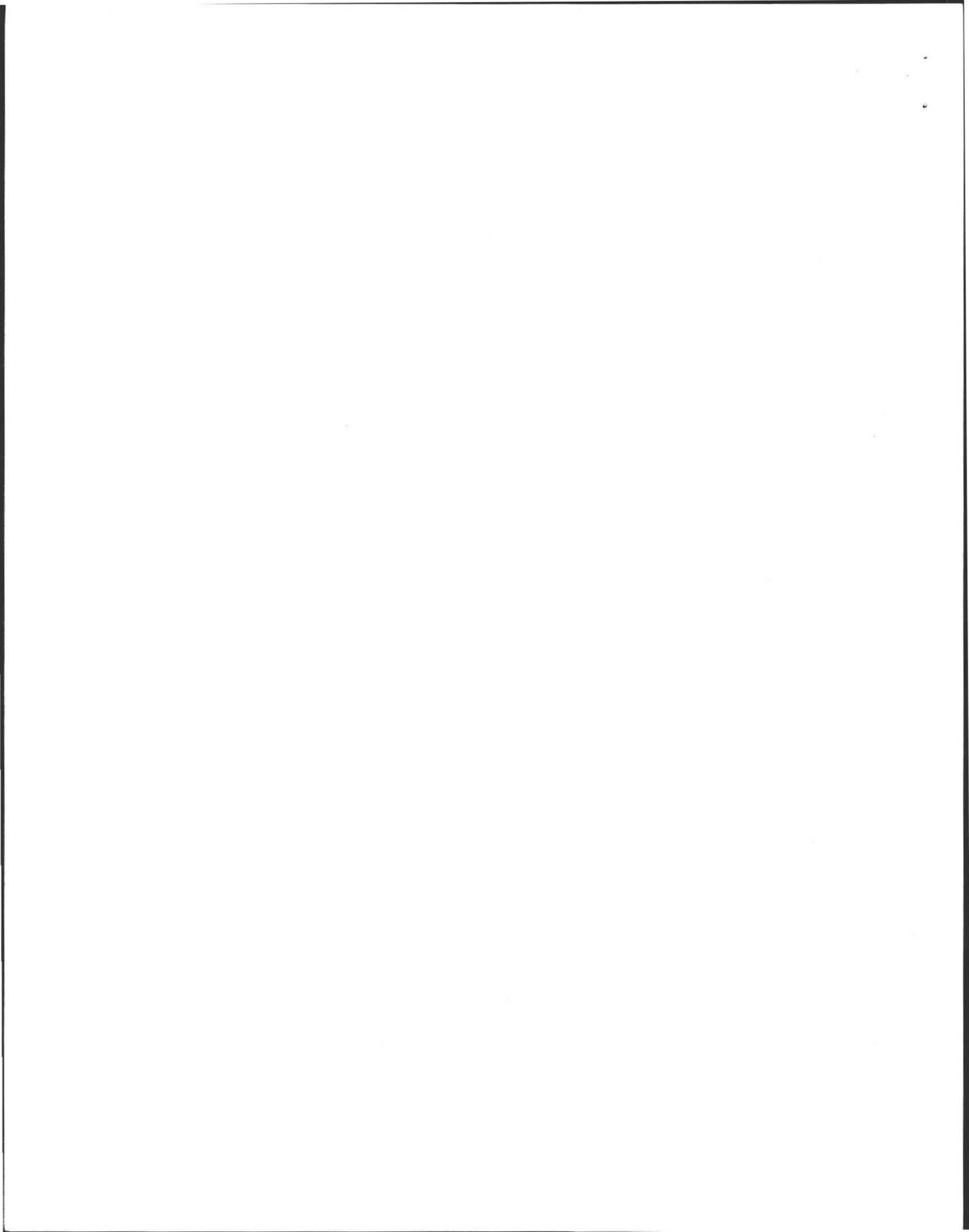
Wetlands Conservancy Program Map (map unit) \_\_\_\_\_

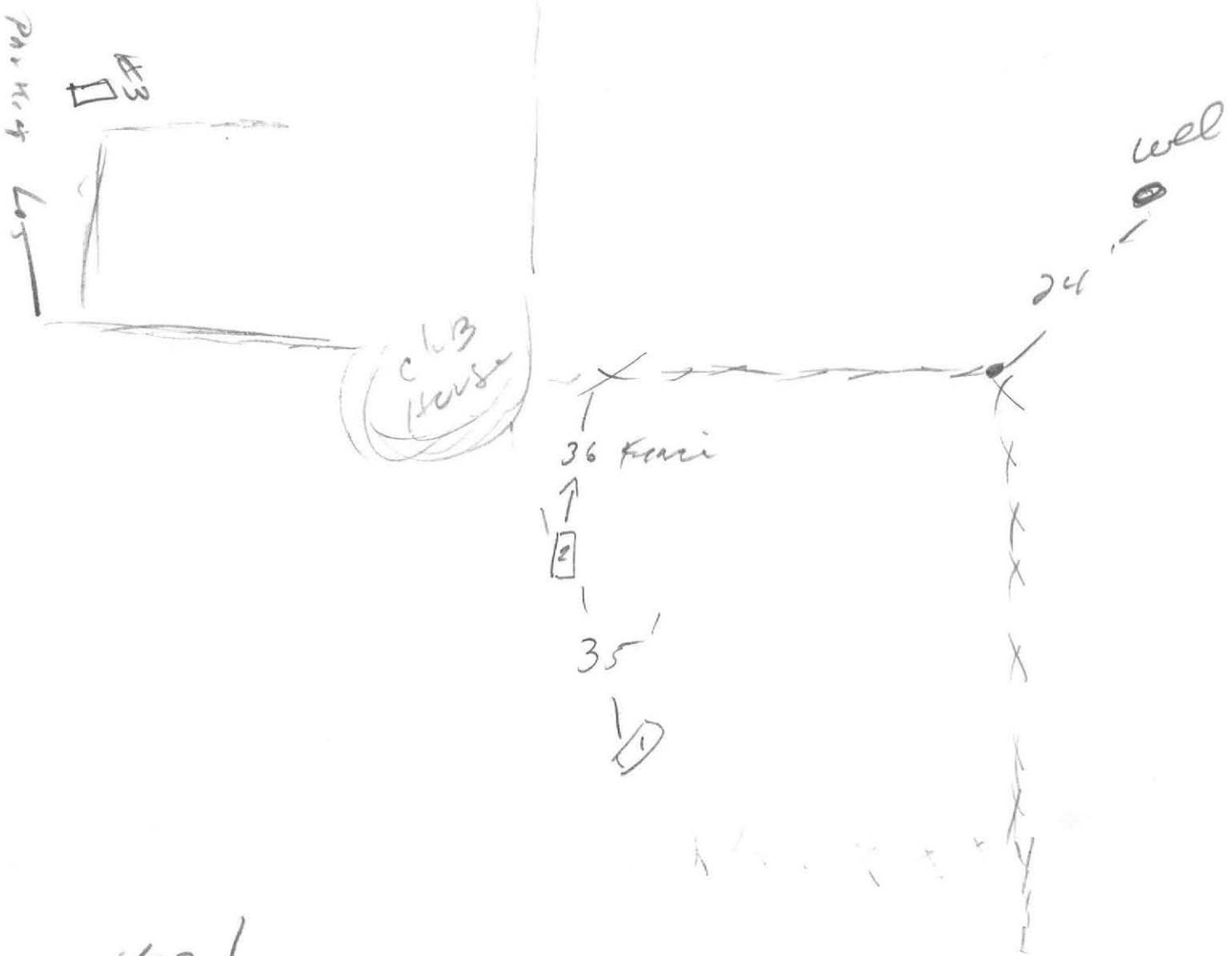
Current Water Resource Conditions (USGS): Month \_\_\_\_\_

Range :Above Normal  Normal  Below Normal

Other References Reviewed: \_\_\_\_\_







#3 } same as  
 A 1 + 2

M/C

FORM 11 - SOIL EVALUATOR FORM  
Page 2 of 3

Location Address or Lot No. \_\_\_\_\_

On-site Review

Deep Hole Number \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Weather \_\_\_\_\_  
 Location (identify on site plan) \_\_\_\_\_  
 Land Use \_\_\_\_\_ Slope (%) \_\_\_\_\_ Surface Stones \_\_\_\_\_  
 Vegetation \_\_\_\_\_  
 Landform \_\_\_\_\_  
 Position on landscape (sketch on the back) \_\_\_\_\_  
 Distances from:  
 Open Water Body \_\_\_\_\_ feet Drainage way \_\_\_\_\_ feet  
 Possible Wet Area \_\_\_\_\_ feet Property Line \_\_\_\_\_ feet  
 Drinking Water Well \_\_\_\_\_ feet Other \_\_\_\_\_

DEEP OBSERVATION HOLE LOG\*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
① 0-16  120	A+B mix	FSL	10YR 3/2  10YR 4/4		Coarse sand Loose 20% gravel
②	S/M #1	AS			

\* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) \_\_\_\_\_ Depth to Bedrock: \_\_\_\_\_  
 Depth to Groundwater: \_\_\_\_\_ Standing Water in the Hole: \_\_\_\_\_ Weeping from Pit Face: \_\_\_\_\_  
 Estimated Seasonal High Ground Water: \_\_\_\_\_



FORM 12 - PERCOLATION TEST

Location Address or Lot No. TOWN OF Amherst  
GOLF COURSE

COMMONWEALTH OF MASSACHUSETTS

, Massachusetts

Percolation Test*		
Date:		Time:
Observation Hole #	(1)	
Depth of Perc	48"	
Start Pre-soak	9:33"	
End Pre-soak	9:34"	
Time at 12"	9:34	
Time at 9"	9:35	
Time at 6"	9:36	
Time (9"-6")		
Rate Min./Inch	22	

\* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

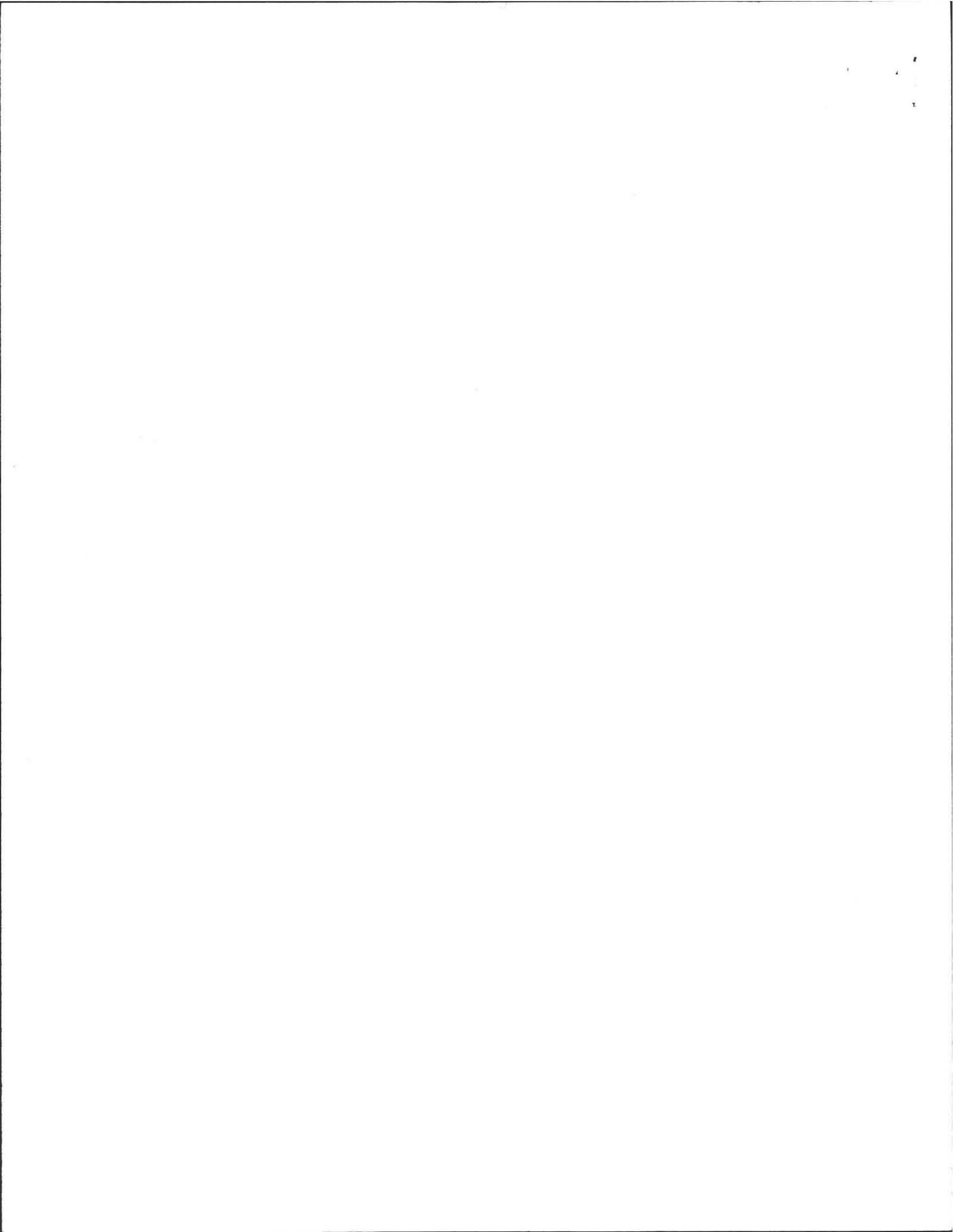
Site Passed  Site Failed

Performed By: AL WEISS

Witnessed By: David Zarawski

Comments: \_\_\_\_\_

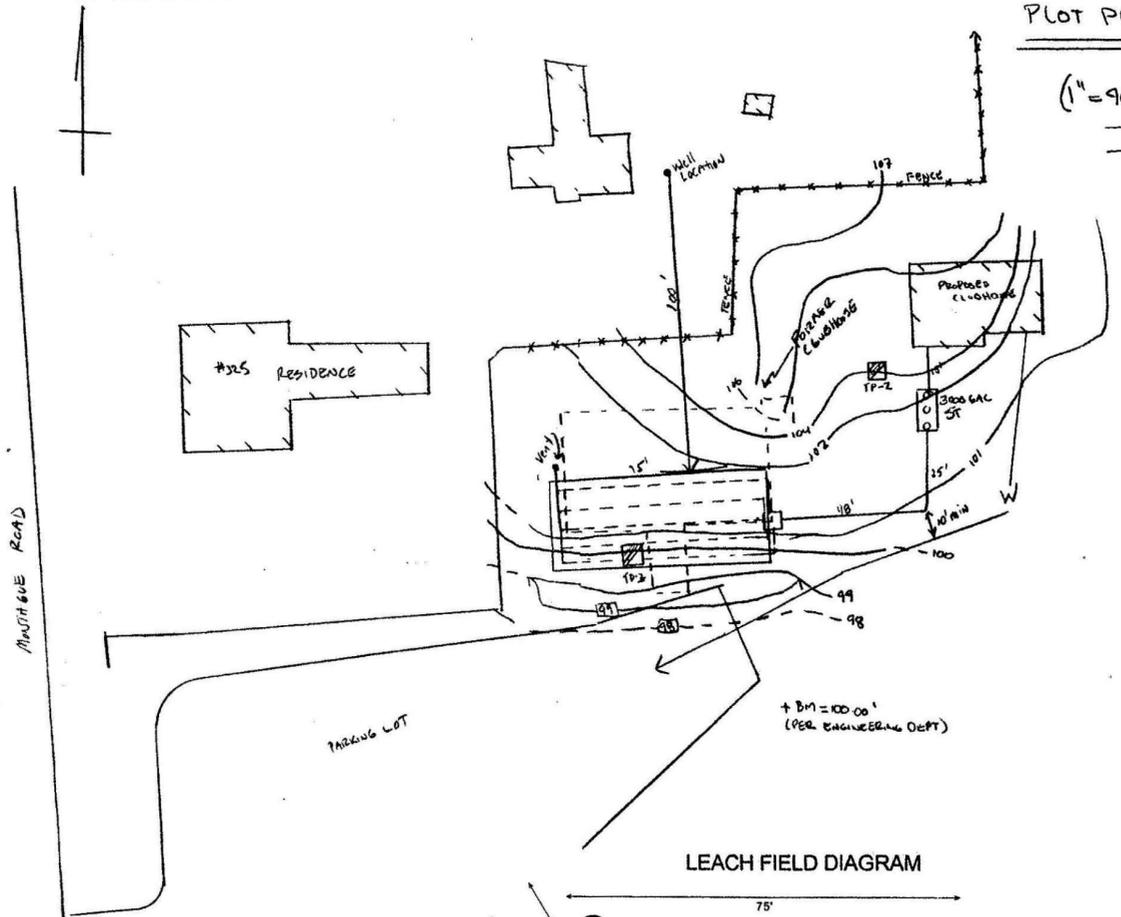




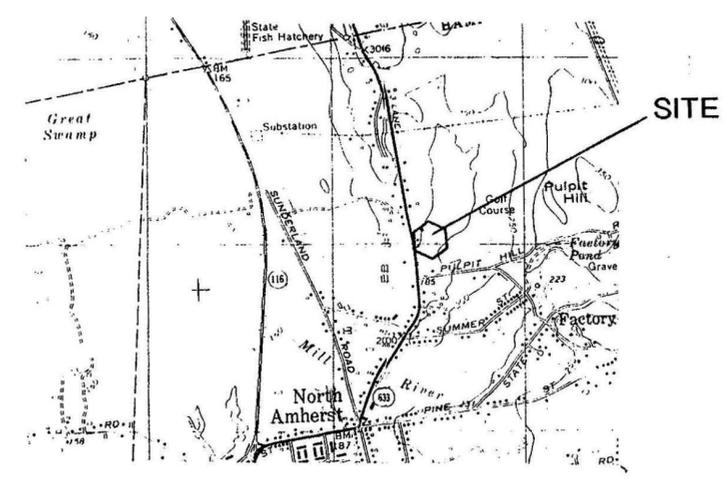
LOT PLAN (BASE MAP, 1"=60' FERN. ENGINEERING DEPT.)

(1"=90')

--- EXISTING CONTOURS  
--- PROPOSED CONTOURS



SITE LOCUS

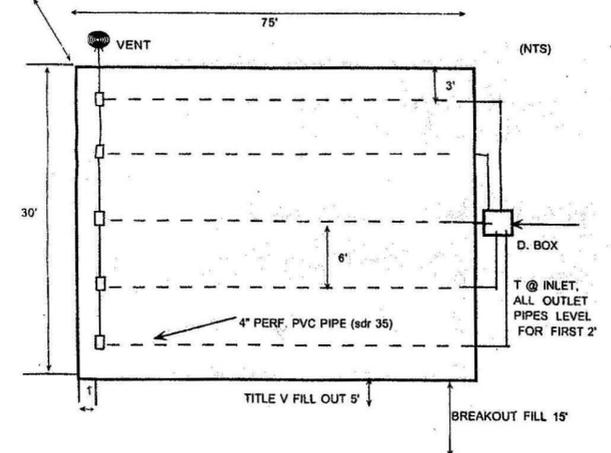


SCALE: 1"=2,083 FT.

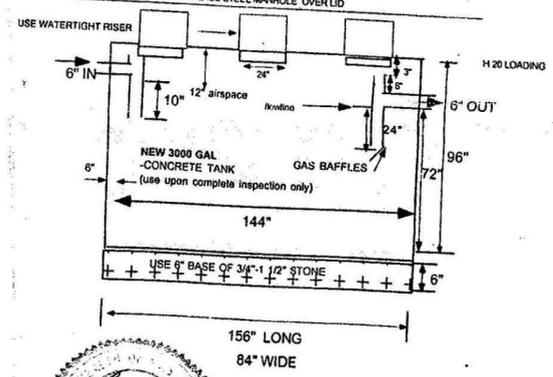
USGS 7.5 MIN. QUAD.

0 FEET 2000

LEACH FIELD DIAGRAM



TYPICAL NEW 3,000 GAL. S. TANK OR EQUIV. (WATERTIGHT)



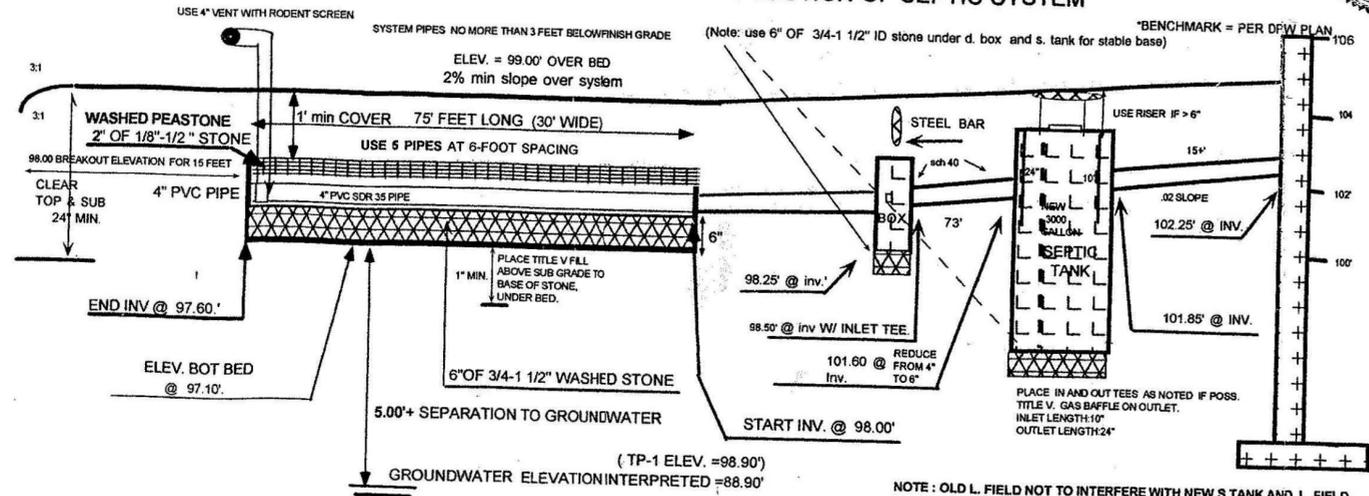
TEST PIT LOG

DEPTH	DESCRIPTION	DEPTH
0-16"	A + B FINE SANDY LOAM, FRIABLE-LOOSE (10 YR 3/2)	0-16"
16-120"	C1 SAND: COARSE SAND AND GRAVEL, LOOSE 20% (GRAVEL AND ROUNDED COBBLES (10YR 4/4))	16-120"
ESHWT: 120" (5' SEPARATION PROVIDED) ESHWT: 120"		
NOT OBS. OXIDES NOT OBS. STANDING H2O NOT OBS. WEeping FROM FACE 120" + BEDROCK		
NOT OBS. NOT OBS. NOT OBS. 120" +		

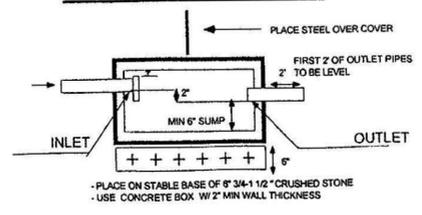
DESIGN NOTES:

- 50 LOCKER COUNTRY CLUB W/ SHOWERS + 20 SEAT SNACK BAR 50 X 20 GAL/DAY + 20 X 10 GAL/DAY X 1.25 = 1500 Gal./day  
-Use ONE Leachfield 30' wide x 75' LONG W/6" stone below invert.  
Bot. Area: 30' wide x 75' long = 2,250sf.  
Side Area: N.A.  
Tot. Area: 2,250 sf x 0.74 gal.sf. = 1,665 gal./day.
- GARBAGE DISPOSAL NOT ALLOWED
- ALL D. BOX OUTLET PIPES LEVEL FOR 2'
- NO PRIVATE WELLS WITHIN 100 FEET
- NO WETLANDS WITHIN 100 FEET OF SAS
- PRE & POST CONTOURS NOTED AS NECESSARY.
- RESERVE AREA NOT REQUIRED.
- SLOPE CALCS (SEE CONTOURS), SUBGRADE INSP. REQ'D.
- 2% MIN. SLOPE OVER SAS, CLEAR TOP AND SUB TO 24" MIN. AS NEEDED.  
CLEAR TO BASE OF B (MIN. 24") UNDER BED. (ADD ENOUGH FILL UNDER BED TO COMPLY W/TITLE V LOCATED BENEATH 0.50 FT. OF APPROVED STONE
- SOIL EVALUATION AND PERC. BY A. WEISS, RS. 12/15/99
- DEPTH OF PERC. 40 & 42" BY A. WEISS, 11/10/98
- PERC RATE < 2 MIN IN 5' SEPARATION, CLASS I SOIL RATING (SAND)
- INSTALL TEES (10" INLET, 24" OUTLET) ON NEW 3,000 GAL. S. TANK
- INSTALL GAS BAFFLE ON OUTLET OF S. TANK.
- USE APPROVED (3/4") ID STONE UNDER BED & D. BOX FOR 6". CONTRACTOR TO CONFIRM STONE PROPERLY WASHED (WITH BUCKET H/20 TEST) PRIOR TO PLACEMENT.

CROSS SECTION OF SEPTIC SYSTEM



TYPICAL D. BOX (WATERTIGHT)



NOTE: USE TITLE V FILL ONLY UNDER AND AROUND FIELD TO MEET DESIGN ELEVATIONS AS NOTED ON PLAN AND AS PER 310 15.255 (clear all top and sub prior to fill placement) (EXCAVATE TO STONE ELVATION) NOTE REGRADING IF SHOWN

NOTE: OLD L. FIELD NOT TO INTERFERE WITH NEW S. TANK AND L. FIELD. NOTE: REGRADE AREA OF FIELD AS NOTED OLD S. TANK AND SAS TO BE PUMPED CRUSHED AND FILLED

CHERRY HILL GOLF CLUBHOUSE REPAIR SEPTIC PLAN		
MONTAGUE ROAD AMHERST		
SCALE:	APPROVED BY:	DRAWN BY <b>AW</b>
D. DATE: <b>4/27/00/ AW</b>		REVISED
COLD SPRING ENVIRONMENTAL, INC		DRAWING NUMBER <b>99-1154-1213</b>